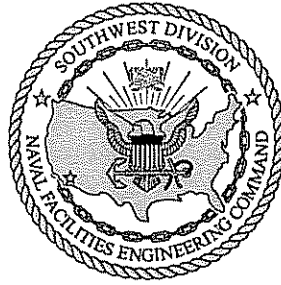

DEPARTMENT OF THE NAVY - SOUTHWEST DIVISION
Naval Facilities Engineering Command



REMEDIAL EXCAVATION/ CLOSURE REPORT

**FORMER UST 41319
MARINE CORPS BASE
CAMP PENDLETON, CALIFORNIA**

FEBRUARY 2005

Prepared by:
Navy Public Works Center San Diego
Work Request No. XFG95L



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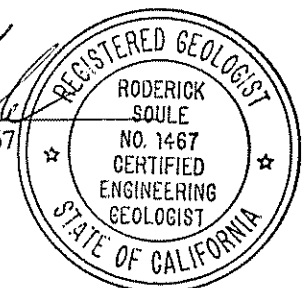
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Acronyms and Abbreviations

AC/S ES	Assistant Chief of Staff, Environmental Security	PCBs	Polychlorinated biphenyls
bgs	Below ground surface	PRG	Preliminary Remediation Goal
BTEX	Benzene, toluene, ethylbenzene and total xylenes	PWCSD	Navy Public Works Center San Diego
CHs	Chlorinated hydrocarbons	RAWP	Remedial Action Work Plan
COC	Chain-of-Custody	SPLP	Synthetic Precipitation Leaching Procedure
DEH	San Diego County Department of Environmental Health	SWDIV	Naval Facilities Engineering Command Southwest Division
DHS	California Department of Health Services	TPH-d	Total petroleum hydrocarbons, diesel
ESA	Environmental Site Assessment	TPH-g	Total petroleum hydrocarbons, gasoline
FWEC	Foster Wheeler Environmental Corporation	TPH-o	Total petroleum hydrocarbons, motor oil
GPS	Global positioning system	TRPH	Total recoverable petroleum hydrocarbons
IDW	Investigation-Derived Waste	UST	Underground Storage Tank
LUFT	Leaking Underground Fuel Tank Manual	Yd ³	Cubic yards
MCBCP	Marine Corps Base Camp Pendleton		
MEI	Minority Enterprises, Inc		
mg/kg	Milligram per kilogram		
MSL	Mean sea level		

1.0 INTRODUCTION

This report presents the results of a remedial excavation of hydrocarbon-impacted soil conducted by the Navy Public Works Center San Diego Environmental Department (PWCSO) at Former Building 41319, Marine Corps Base (MCB) Camp Pendleton, California (Figures 1-1, 1-2). The remedial excavation was conducted under Naval Facilities Engineering Command, Southwest Division (SWDIV) Work Request Number XFG95L.

Sampling and analysis activities were conducted in accordance with the Remedial Action Work Plan (RAWP) (PWCSO, 2004). The RAWP was reviewed by, and received concurrence from, the California Regional Water Quality Control Board, San Diego Region (RWQCB).

1.1 Objectives

The primary objectives of this remedial excavation were to:

- Meet the internal objectives of MCB Camp Pendleton for reduced potential risk to hypothetical construction workers at the site;
- Meet the requirements of the California Regional Water Quality Control Board (RWQCB) and San Diego County Department of Environmental Health (DEH);
- Obtain regulatory concurrence with a recommendation for site closure with no further action upon attaining soil cleanup goals to the extent practical.

1.2 Scope of Work

To meet project objectives, the scope of work included the following elements:

- Review of available environmental site assessment data and published geologic literature;
- Preparation of the RAWP, and supporting site-specific Worker Health and Safety Plan;
- Excavation and disposal of hydrocarbon-impacted soil, estimated at 275 cubic yards (yd³) of soil;
- Collection and analysis of confirmation soil samples;
- Restoration of the site to its original design; and
- Presentation of results, interpretation, conclusions, and recommendations in this Remedial Excavation /Closure Report.

2.0 BACKGROUND

This section presents information on site history, previous investigations, regional and site geology and hydrogeology, and proposed cleanup goals.

2.1 Site Description

The site is a decommissioned (date unknown) vehicle grease rack underground storage tank (UST) located on the north side of El Camino Real approximately 350 feet west of Fisher Road in the 41 Area. The site is at an approximate elevation of 120 feet above mean sea level (msl). UST Site 41319 is shown with nearby Area 41 buildings in Figure 1-2. UST 41319 was a 2,000-gallon waste oil tank, which was removed in 1994 by Minority Enterprises, Inc. (MEI, 1994).

Site Address:	FORMER BUILDING 41319, 41 AREA, MCB CAMP PENDLETON, CALIFORNIA 92055
Facility Name:	VEHICLE GREASE RACK (DECOMMISSIONED)
RWQCB Case No.:	9UT2903
DEH Case No.:	H05939-145
Property Owner:	UNITED STATES MARINE CORPS
Contact Person:	MS. TRACY SAHAGUN ASSISTANT CHIEF OF STAFF, ENVIRONMENTAL SECURITY BOX 555008, BUILDING 22165 CAMP PENDLETON, CALIFORNIA 92055-5008 (760) 725-9774
Remedial Project Manager:	MR. BIPIN PATEL, P.E. NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST DIVISION 1220 PACIFIC HIGHWAY SAN DIEGO, CALIFORNIA 92132-5190 (619) 532-4814
Responsible Party:	UNITED STATES MARINE CORPS

2.2 Previous Investigations

The remedial excavation activities at UST 41319 were guided by data from two previous investigations.

Tank Removal Report

In July 1994, UST 41319 was removed by Minority Enterprises, Inc (MEI, 1994). The tank excavation was approximately 11 feet by 16 feet and extended 8 feet below ground surface (bgs). A concrete tank pad was encountered at the base of the excavation, which has not been removed. Groundwater was not encountered in the excavation. Following UST removal, MEI personnel collected soil samples from the western sidewall of the excavation and below the tank pad (Figure 2-1).

Each sample was analyzed for total petroleum hydrocarbons quantified as gasoline (TPH-g) and diesel (TPH-d) by modified U.S. Environmental Protection Agency (EPA) Method 8015 and total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1.

Soil analytical results for TPH-g, TPH-d, and TRPH are summarized in Table 3-1. Soil analytical results from a sample collected adjacent to and below the former UST location reported a TPH-g concentration of 16 milligrams per kilogram (mg/kg), a TPH-d concentration of 270 mg/kg, and a TRPH concentration of 2,600 mg/kg. Information regarding the disposition of excavated soil was not available. The excavated soil may have been used to backfill the UST excavation (Ninyo & Moore, 2000).

Environmental Site Assessment

Following removal of the UST, Ninyo & Moore conducted Environmental Site Assessment (ESA) field activities from November 1999 to January 2000 to evaluate the extent of impacted soils and assess groundwater quality (Ninyo & Moore, 2000). Eighteen vertical soil borings (41319-B1 through 41319-B18) were advanced to depths of up to 50 feet bgs in the vicinity of the former UST (Figure 2-1). Soil samples were collected from each boring at intervals ranging from 1 to 5 feet between samples. An attempt was made to collect a groundwater sample from a temporary well installed in boring 41319-B1 located in the former tank cavity. Groundwater was not observed in the temporary well after a 28-day period.

One hundred twenty-one soil samples were analyzed for TRPH by U.S. EPA Method 418.1. Selected soil samples, including those with the highest TRPH concentrations, were analyzed for the following constituents (Ninyo & Moore, 2000):

- TPH-g and TPH-d by U.S. EPA Method 8015M;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by U.S. EPA Method 8021B;
- Chlorinated hydrocarbons (CHs) by U.S. EPA Method 8021B;
- Polychlorinated biphenyls (PCBs) by U.S. EPA Method 8082;
- Organic lead by the California Department of Health Services (DHS) Leaking Underground Fuel Tank Manual (LUFT) Method; and
- Title 22 Metals (17 metals) by U.S. EPA Method 6010/7471.

In addition, selected soil sample extracts, including those with the highest TRPH concentrations, were analyzed following the Synthetic Precipitation Leaching Procedure (SPLP) for the following:

- BTEX/MTBE by U.S. EPA Method 8021B;
- CHs by U.S. EPA Method 8021B;
- PCBs by U.S. EPA Method 8082;
- Organic lead by DHS LUFT Method; and
- Title 22 Metals by U.S. EPA Method 6010/7471.

TRPH was reported in 21 of the 121 soil samples analyzed, in concentrations ranging from 16 to 60,000 mg/kg. TRPH concentrations in eight soil samples exceeded 1,000 mg/kg (Ninyo & Moore, 2000). TPH-d was reported in six soil samples in concentrations ranging from 18 to 3,600 mg/kg. TPH-g was reported in one soil sample at a concentration of 300 mg/kg, with hydrocarbons indicative of Stoddard solvent (Ninyo & Moore, 2000).

Toluene, ethylbenzene, and total xylenes were reported in the two soil samples with the greatest TRPH concentrations. Toluene, ethylbenzene and total xylenes concentrations were two to three orders of magnitude less than their applicable respective U.S. EPA Region 9 Preliminary Remediation Goals (PRGs) for residential soils (U.S. EPA, December 1999).

2.3 Topography

The subject site is located at Marine Corp Base Camp Pendleton California. The former UST was installed approximately 40 feet from the western side of the decommissioned Vehicle Grease Rack 41319 (Figures 1-1 and 1-2). Surface topography in the site vicinity is relatively flat at an elevation of approximately 120 feet above sea level. Surface drainage at the site is towards a small, unnamed ephemeral stream located approximately 500 feet southeast of the site.

2.4 Regional Geology and Hydrogeology

MCB Camp Pendleton is situated in the Peninsular Ranges Geomorphic Province. Geomorphic characteristics found in the peninsular range include mountain slopes, foothills, inland valleys, coastal valleys, coastal slopes, and coastal plains. Generally, MCB Camp Pendleton contains all these features, which slope to the west from the mountain backbone near the eastern border of the Base, with the exception of a low coastal mountain range (Foster Wheeler Environmental Corporation [FWEC], 2003).

The stratigraphy within the Base varies from east to west (Rosenberg, 1994). In the eastern mountains, a complex of presumably Cretaceous igneous intrusive and extrusive rocks intrude and overlie the Jurassic-aged sedimentary rocks of the Bedford Canyon Formation. An Upper Cretaceous marine conglomerate occurs in the more westerly mountain slopes and foothills. The Cretaceous Williams Formation occupies the foothills and inland valleys to the west of the eastern mountain range and may conformably overlie the Bedford Canyon Formation in the inaccessible artillery impact area. In the transition zone between the inland valleys and eastern slope of the coastal mountains, the Middle Eocene Santiago Formation unconformably overlies the Williams Formation and an intermittent paleosol developed on it. The Middle Miocene San Onofre Breccia unconformably overlies the Santiago Formation and forms the backbone of the coastal San Onofre Mountains. The coastal slope of these mountains is occupied by relatively small nearshore exposures of successively overlying Upper Miocene Monterey

Formation, Lower Pliocene Capistrano Formation, and assorted Pleistocene Terrace Deposits. Three major river valleys contain Upper Pliocene to Holocene alluvial deposits that extend into the inland valley (FWEC, 2003).

Groundwater at MCB Camp Pendleton may be present in two types of aquifers: a shallow unconfined aquifer (Moyle, 1973) and deeper, possibly confined aquifers. Both types of aquifers may be present in the larger southwest trending valleys on the Base, such as the Santa Margarita River Valley.

2.5 Site Geology and Hydrogeology

UST Site 41319 is situated upon Stewart Mesa in the San Onofre/Las Flores Creek Watershed. Surface drainage at the site is towards a small, unnamed ephemeral stream located approximately 500 feet southeast of the site. The stream flows in a southwesterly direction for approximately 1.2 miles where it discharges into the Pacific Ocean. Las Flores Creek, located approximately 0.8 miles northwest of the Site, has existing beneficial uses for agricultural supply, contact and non-contact water recreation, warm and cold freshwater habitat, wildlife habitat, and rare, threatened, or endangered species habitat. The RWQCB has exempted Las Flores Creek from municipal use designation. The nearest major surface water body is the Pacific Ocean.

UST Site 41319 is underlain by several feet of fill and Quaternary aged Older Alluvium. The fill extends from near surface to approximately 6.5 feet bgs, and consists of reddish brown to gray silty sand. The Older Alluvium typically consists of reddish brown and olive gray sandy silt and clayey silt (Ninyo & Moore, 2000).

Groundwater beneath the site occurs within the Las Pulgas Hydrologic Subarea (901.52) within the San Onofre Hydrologic Area (1.50) of the San Juan Hydrologic Unit. The hydrologic area has existing groundwater beneficial uses for municipal and agricultural supply. The nearest water supply well (10/5 18M4) is located approximately 1 mile northwest of the site. Groundwater was not encountered at a maximum depth of 50 feet bgs during the ESA. Groundwater was encountered at 36 feet bgs at UST Site 41312, located approximately 450 feet northwest of the site. The groundwater source at site 41312 is believed to be artificial recharge from a plugged boiler-water discharge floor drain. Groundwater flow is estimated to be in the southwestern direction, towards the Pacific Ocean (Ninyo & Moore, 2000).

2.6 Nature and Extent of Pre-Excavation Contamination

Laboratory results from previous investigations indicate that subsurface contaminants are the result of hydrocarbon fuels leaking from the former UST at the site. Based on the results of previous investigations, it was estimated that the lateral extent of impacted soils extends over an area approximately 80 feet by an average 40 feet and extends vertically to variable depths to an estimated maximum of 10 feet bgs. The estimated volume of hydrocarbon-impacted soil is approximately 275 cubic yards.

2.7 Proposed Cleanup Goals

Promulgated cleanup goals for TRPH, TPH-d, and TPH-g do not exist for soil. In accordance with San Diego County Department of Health Guidelines, MCB Camp Pendleton proposed soil cleanup levels that ensure the following:

- remaining leachable/mobile constituents of concern do not threaten to cause groundwater or surface water to exceed applicable (water) target cleanup levels;
- remaining constituents of concern do not threaten public health through exposure to soil vapors of the soil itself; and
- remaining constituents of concern do not create fire or explosion hazards.

Although promulgated cleanup levels for TRPH and TPH in soils do not exist, guidance is available in the Leaking Underground Fuel Tank Field (LUFT) Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure (California State Water Resources Control Board, 1989). Generally, site-specific, risk-based levels have superseded guidelines specified in the LUFT Manual. In the case of UST Site 41319, analytical results from previous soil samples for petroleum constituents, VOCs, SVOCs, and metals are consistently less than residential PRGs, or applicable background values in the case of metals. UST Site 41319 already meets site-specific, risk-based criteria and meets RWQCB criteria for a low-risk soil-only site.

However, to meet MCB Camp Pendleton's objectives of reducing potential risk to hypothetical future construction workers and expediting site closure, the following cleanup objectives were applied.

Table 2-1. Proposed Soil Cleanup Goals

Constituent	Proposed Cleanup Goal (mg/kg)
TRPH	1,000
TPH-d	100
TPH-g	10

3.0 FIELD METHODS

This section describes the field methods implemented to remove hydrocarbon-impacted soil at UST Site 41319.

3.1 Underground Utility Survey

Prior to conducting the subsurface investigation, underground utilities were located by Underground Services Alert and Underground Locating Services Corporation using geophysical methods and as-built drawings. In addition, representatives of MCB Camp Pendleton Utilities Department identified underground utility locations using facility drawings. Utilities identified within the planned excavation area were identified, marked, and provisions were made to avoid utility damage during remedial activities.

3.2 Worker Health and Safety

A site-specific Worker Health and Safety Plan was prepared by PWC personnel. This document was reviewed and signed by all PWC personnel and subcontractors prior to conducting work at the site. Excavation activities were coordinated in advance with Area 41 operations personnel and advance notification was provided to the MCB Camp Pendleton Resident Officer in Charge of Construction.

3.3 Public Health and Safety

To reduce the potential for public exposure to site hazards, the adjacent tenants were notified prior to the start of work. Barricades and danger tape was set around the planned perimeter of the excavation. A public notice providing project information and a 24-hour telephone number for complaints or questions was posted in the vicinity of the work area.

3.4 Remedial Excavation

On October 10 2004, preparation for remedial activities began. The UST area was cleared of vehicles and traffic, fenced off as above, and secured from unauthorized access. Prior to excavating, all previous investigation sampling locations were marked over the proposed excavation, delineating the extent of fuel-impacted soil as defined by historical data.

In accordance with the excavating process outlined in the RAWP, the following scope of work was completed to remove hydrocarbon-impacted soil that may present a risk to potential future construction workers:

- Approximately 211 yds³ of impacted soil was removed immediately south and west of the former tank to achieve soil cleanup goals of <1,000 mg/kg TRPH, <100 mg/kg TPH-d, and <10 mg/kg TPH-g.
- Confirmation soil sampling was completed on the bottom and sidewalls of the excavation to define the boundary of the excavation.
- Asphalt and concrete was taken to 3-Mile Pit in accordance with MCB Camp Pendleton recycling directives.
- Following laboratory analysis and waste profiling, the manifesting and disposal of excavated soil was conducted in conjunction with the MCB Camp Pendleton

Hazardous Waste Group and Assistant Chief of Staff of Environmental Security (AC/S ES).

- The site was properly restored by backfilling with compacted clean soil and Class II base, and sealing the excavation with concrete and asphalt.

Between October 10, 2004 and November 10, 2004, hydrocarbon-impacted soil at the site was excavated to an average depth of approximately 5 feet bgs. Excavation depths in select areas ranged from approximately 2.5 feet to 12 feet bgs, and were determined by either previous data or confirmation sampling results. Heavy rain caused several disruptions in planned field activities during this time.

Soil was removed based on previous data, visual hydrocarbon staining and/or odor, and real-time analytical data for confirmation soil samples using an on-site mobile laboratory. The bulk of hydrocarbon-impacted soil was encountered south of the former UST. Impacted soil was also excavated from a small asphalt parking area to the west of the former UST (Figure 4-1). Site photographs are presented in Appendix A.

Following initial removal of all anticipated hydrocarbon-impacted soil based on previous data, confirmation samples were collected at the limits of the excavation and submitted to a mobile laboratory to confirm that impacted soil above 1,000 mg/kg TRPH and/or TPH was removed. Where elevated concentrations of hydrocarbons were detected in a confirmation sample, the excavation was enlarged laterally or vertically as necessary to fully remove the impacted soil and attain cleanup goals. A total of approximately 211 yds³ of soil was removed during excavation activities; this amount was slightly less than the anticipated amount of 275 yds³. The following subsections describe confirmation soil sampling activities.

3.5 Soil Sampling

To assess the lateral and vertical extent of hydrocarbon-impacted soil above project action levels and confirm removal, soil samples were collected at various depths within the excavation. Select samples were collected within areas of known contamination (based on visual staining and odor) for waste characterization purposes, and on the bottom and sidewalls of the excavation to define the limit of the excavation. The limit of the excavation is displayed on Figure 4-1 along with site photographs presented in Appendix A. Cross sections of the excavation are shown on Figures 4-2 (A-A') and 4-3 (B-B').

Soil samples were analyzed by state certified laboratories that included Calscience Environmental Laboratories, Navy Environmental Laboratory, and the mobile laboratory provided on-site by HP Labs, Inc. Ten percent of the samples analyzed by the mobile laboratory were also submitted to the stationary laboratories for verification purposes. Soil sample analysis included TPH as gasoline, diesel, and oil (TPH-g, TPH-d, TPH-o) in accordance with EPA Method 8015 Modified, and TPRH using EPA Method 418.1 Modified.

A California Department of Health Services-Certified mobile laboratory (H&P Laboratories) was on-site to analyze soil samples for TRPH and TPH as TPH-g, TPH-d, and TPH-o as they were collected. Soil samples were collected either from within the

A California Department of Health Services-Certified mobile laboratory (H&P Laboratories) was on-site to analyze soil samples for TRPH and TPH as TPH-g, TPH-d, and TPH-o as they were collected. Soil samples were collected either from within the excavation directly, or from the excavators' bucket near the teeth when safety constraints prohibited entering the excavation. Soil samples were placed into laboratory-provided glass jars, sealed with Teflon-lined caps, properly labeled, and delivered to the on-site mobile laboratory for immediate analyses.

The Encore® sampling system was used for collection of the TPH-g samples submitted for stationary laboratory verification analysis. These samples were handled according to the instructions provided with the Encore® system (Appendix F) and in accordance with EPA Method 5035, from Test Methods for Evaluation of Solid Waste, SW-846, Update III, U.S. EPA 1997. PWCSO retained custody of and delivered the samples bound for the stationary analytical laboratory (Navy Regional Environmental Laboratory).

Sampling activities were supervised by a State of California certified engineering geologist. Disposable sampling equipment was used to prevent cross-contamination between samples and to eliminate the need for decontamination of small non-disposable sample equipment. Field personnel used a new pair of disposable gloves for the collection of each soil sample.

3.6 Sample Handling, Documentation, and Custody

Prior to sample collection, sample labels were filled out and affixed to each sample container. The alphanumeric sample names assigned to each sample indicate the location of the soil sample and the depth (bgs) at which the soil sample was retrieved. Each sample was placed in a Ziploc® plastic bag to keep the sample container and label dry.

Samples were controlled under Chain-of-Custody (COC) protocol. The COC forms were completed and signed by the field crew and stationary laboratory for analysis. A separate COC was used to document mobile laboratory sample custody. COC forms are available in Appendix B. Daily field logs were maintained by field personnel to document field observations and activities occurring during the course of the project.

3.6.1 Global Positioning System Survey

To accurately locate the boundary of the excavation and the sample locations, a Trimble® global positioning system (GPS) unit was used. The excavation perimeter and each sample location were surveyed, and the coordinates plotted on site maps.

3.6.2 Site Restoration

Following removal activities the excavation the site was properly restored by backfilling with clean soil, Class II base, and sealing the excavation with concrete and asphalt to restore the site for its current use as a vehicle staging area and street parking. Engineering fill material was placed in the excavation areas from 5 feet bgs to grade in 1-foot compacted lifts. The ground surface was restored to match pre-existing grade and conditions.

Assistant Chief of Staff of Environmental Security. Investigation-derived waste was disposed of as follows:

- Excavated soil was secured with plastic and straw rolls, and temporarily stored on-site pending profiling results. Following laboratory analysis and waste profiling, 285 tons of excavated soil was transported to Candelaria Environmental, an authorized biotreatment facility. The Non-Hazardous Materials Hauling Manifests and Soil Profile Form are provided in Appendix C.
- All asphalt and concrete removed during excavation activities was segregated into separate stockpiles and transported to the Three-Mile Pit located at MCB Camp Pendleton for recycling.
- Non-hazardous solid waste was disposed of as solid waste with other trash generated at MCB Camp Pendleton.

4.0 RESULTS

Between October 10 and November 10, 2004, approximately 211 yds³ of hydrocarbon-impacted soil were excavated and 30 confirmation soil samples were collected and analyzed at UST Site 41319. The results of this investigation follow.

4.1 Soil Analytical Results

Confirmation soil sample analytical results indicate that hydrocarbon-impacted soil has essentially been removed from the area accessible to excavation. Analytical data are summarized in Table 4-1 and Figure 4-1. Figures 4-2 and 4-3 present cross sections of the excavation and site area.

Confirmation soil samples were analyzed on-site by H&P Labs. To verify the mobile laboratory results, select samples (10% of the total number of samples) were also delivered to a stationary lab for analysis. The following sections describe the analytical results for both the mobile and fixed laboratories.

4.1.1 Mobile Laboratory

A total of 29 confirmation soil samples were analyzed by H&P Labs during two separate field mobilization efforts (October 19 and November 1, 2004). In accordance with the Work Plan, samples collected on October 19 were submitted to the on-site laboratory for analysis of TPH-g, TPH-d and TRPH. Samples collected on November 1 were inadvertently not analyzed by the mobile lab for TRPH but instead for the full range of TPH as TPH-g, TPH-d, and TPH-o. It should be noted, however, that TRPH results from the verification analyses conducted by the stationary laboratory corroborated with TPH extended range analyses performed by the mobile laboratory. The greatest TPH concentration reported was 4900 mg/kg for TPH-o in a sample collected from 41319-EX11 at a depth of 4.0 feet bgs. Several samples were collected from a visibly stained horizon and analyzed for TPH-g, TPH-d, and TPH-o, the data was used for waste characterization purposes. Most samples collected from the excavation sidewalls and bottom were compliant with project cleanup goals. TPH-g was not reported in any confirmation soil samples. TPH-d was reported at a concentration of 210 mg/kg in one sample; 41319 EX11 at a depth of 4.0 feet bgs. Three samples contained TRPH concentrations exceeding project cleanup goals, the three samples were taken from previous bore locations and used to confirm analytical results from previous investigations at this site. Although discrepancies between historical and current data were noted, the three locations were over excavated to ensure removal of impacted soil and attain cleanup goals.

4.1.2 Fixed Laboratory

In accordance with the RAWP and SWDIV's internal directives, confirmation soil samples (two samples) were submitted to Navy Regional Environmental Laboratory for verification analysis. The greatest concentration in the samples analyzed by the stationary laboratory contained TPH-d reported as 130 mg/kg in the sample collected from B4S-1. It should be noted that although TPH-g and TRPH results in this sample correlated well with results from the mobile laboratory, the TPH-d concentration from the

correlated well with results from the mobile laboratory, the TPH-d concentration from the on-site analyses was reported as non-detect above the 10 mg/kg reporting limit. As a conservative measure, this location was over excavated to remove the potentially impacted soil and attain cleanup goals. Stationary laboratory data were submitted to Laboratory Data Consultants for third party validation, and the results used to compare to mobile laboratory data. Review of data validation results indicates that TPH-g analyses for the sample collected from B4S-1 was analyzed 4 days past the holding time for gasoline. Although results have been flagged with a "J" qualifier to reflect an estimated detection limit, it is unlikely that TPH-g would be present in this sample. TPH-g was not detected above the reporting limits in any of the excavation samples. The detected TPH-g concentration of 0.29 mg/kg in one of the samples analyzed by the stationary laboratory (4239-01 NAV-EX21) was between the method detection limit and the reporting limit and therefore was qualified as an estimated quantity to reflect the uncertainty within this concentration range.

4.2 Extent of Hydrocarbon-Impacted Soil Remaining In Place

Utilities in the vicinity of the excavation include storm drains and sewer, which constrained excavation efforts. Utility depth in this area is at the same depth as the impacted soil. While utilities may have contributed to contaminant transport in the UST area, the stability of the remaining contaminant plume is likely due to the fine-grained nature of the soils at the site coupled with the comparatively limited mobility of the fuel oil contaminant.

Only one sample in the accessible excavation area showed a remnant of contamination in excess of the soil cleanup goals. Sample 41319-EX 11 represents an area of inaccessible impacted soil which remains directly below the storm water drain pipe and the cement block retaining wall. It is estimated that approximately 14 cubic yards of contaminated soil exists underneath this area of the site.

To characterize the inaccessible soil remaining in place beneath the storm drain pipe, three samples were collected along the length of the pipe and one sample was collected in the southwest corner of the tank pit. Concentrations of TPH-d and TPH-o were reported in samples 41319-EX11 and 41319-EX09. Approximately 14 cubic yards of impacted soil are estimated to remain in place beneath the pipe, the cement block retaining wall, and the southwestern edge of the UST excavation. A cross section summarizing conditions in the vicinity of these utilities is presented on Figure 4-2.

5.0 SUMMARY AND RECOMMENDATIONS

The remedial action proposed in the RAWP was elective, and was initiated by MCB Camp Pendleton to facilitate site closure and reduce hypothetical future risk to construction workers. Pre-remedial conditions at the site met RWQCB criteria for a low-risk soil-only scenario (RWQCB, 1996). In accordance with the RAWP, hydrocarbon-impacted soil was excavated to meet remedial action cleanup goals to the extent practical. Confirmation soil samples were collected to ensure removal of impacted soil. Removal of a small volume of hydrocarbon-impacted soil was not feasible due to utilities.

The following summary is provided:

- Visibly stained hydrocarbon-impacted soil was encountered and removed near the former UST. Laboratory analysis of a soil sample collected in this visibly stained soil indicates that the hydrocarbons are composed of predominantly diesel range and higher hydrocarbons.
- Soil analytical data collected during excavation activities confirmed contaminant removal.
- Using data from the current and previous investigations, the lateral and vertical extent of impacted soil is adequately assessed.
- Approximately 285 tons of hydrocarbon-impacted soil were removed from the site.
- An estimated 14 yds³ of hydrocarbon-impacted soil remains inaccessible beneath the storm water pipe and cement block retaining wall.
- Only TPH-d and TPH-o were detected in levels above the Site Action Levels in the area of the storm drain.
- All soil removed from the excavation was removed from the site for disposal. An estimated 14 cubic yards of impacted soil remains beneath the area of the storm water drain.
- The site should be considered a low risk soils only case and no further action required for the following reasons:
 - The UST and nearly all hydrocarbon-impacted soil associated with the UST system has been removed.
 - The site has been adequately characterized.
 - No current groundwater impact exists.
 - Because the release is old, the site is paved, and layers with low permeability exist between the groundwater table and the excavation, no groundwater, surface water or other sensitive receptors are likely to be impacted.

groundwater, surface water or other sensitive receptors are likely to be impacted.

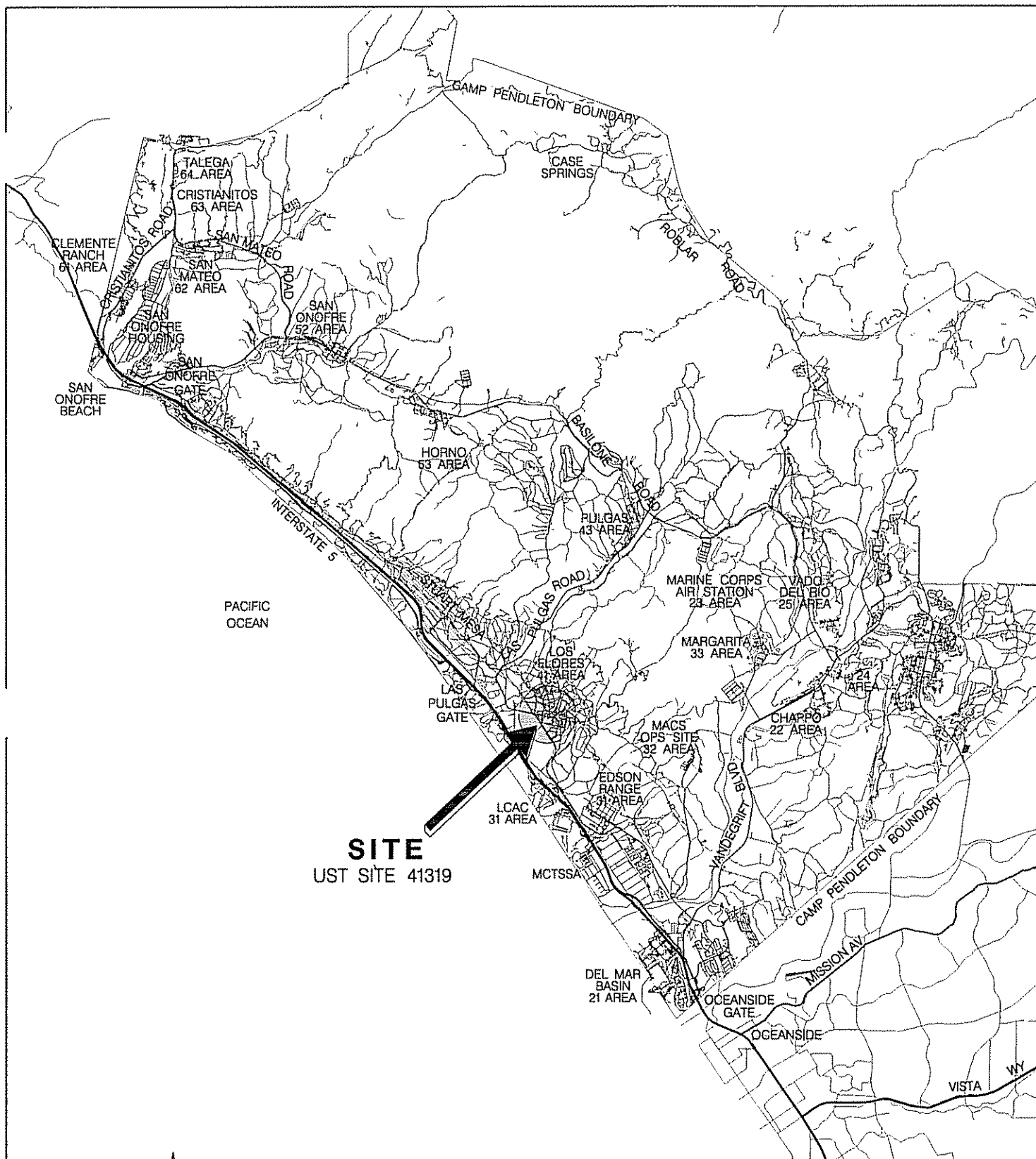
- o The site presents no significant risk to human health or the environment from any remaining adsorbed-phase hydrocarbons or vapors.

The RWQCB Case Closure Summary is available in Appendix G.

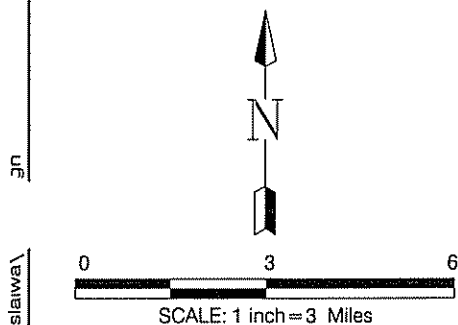
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FIGURES



SITE
UST SITE 41319



SITE LOCATION

UST SITE 41319
MCB CAMP PENDLETON, CALIFORNIA



NAVY PUBLIC WORKS CENTER

CODE 980

2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

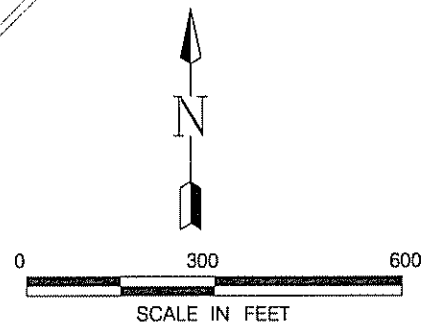
Date:
File No

2102005
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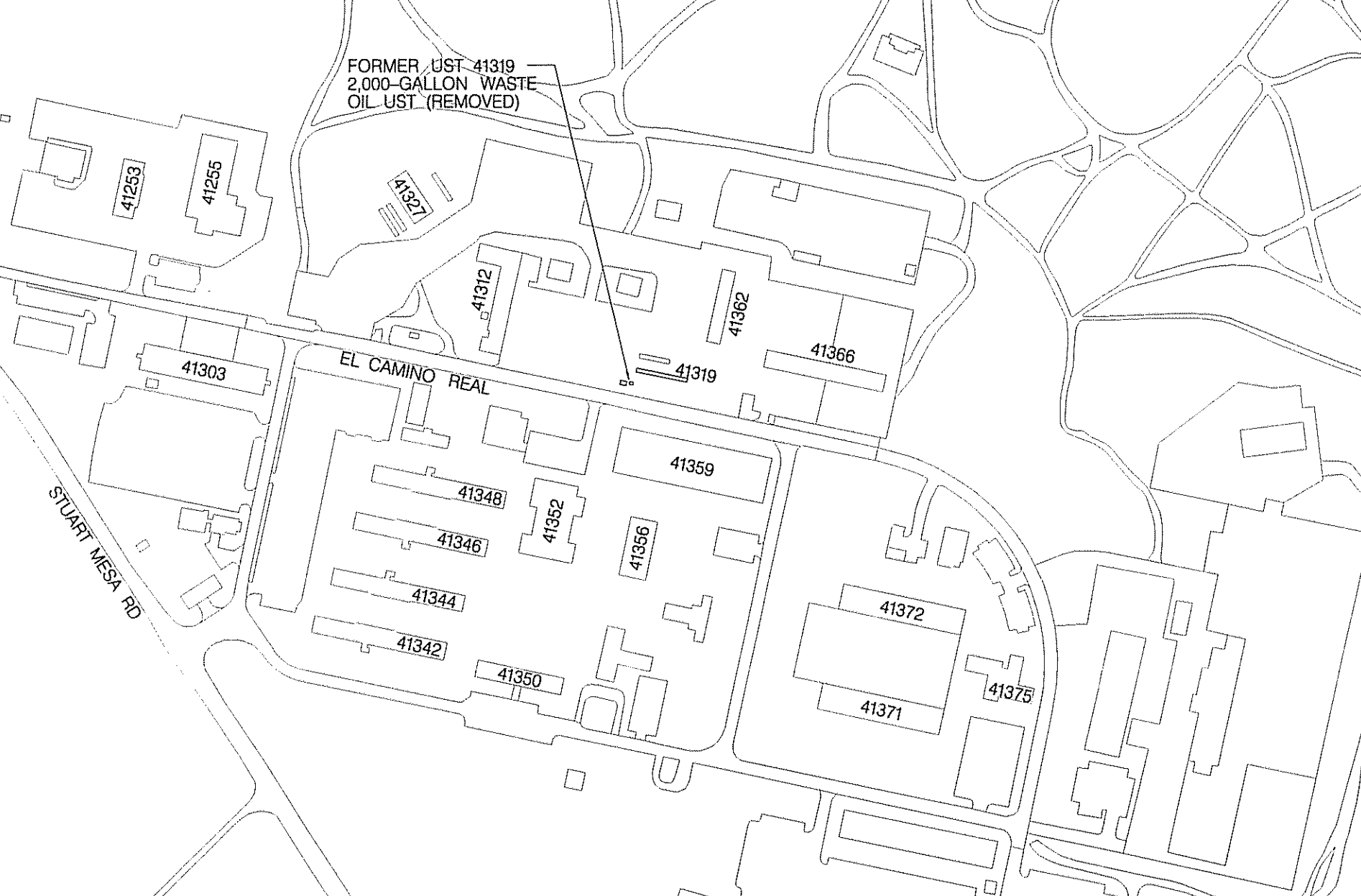
FIGURE 1-1

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SOURCE: NINYO & MOORE, 2000



FORMER UST 41319
2,000-GALLON WASTE
OIL UST (REMOVED)



SITE PLAN

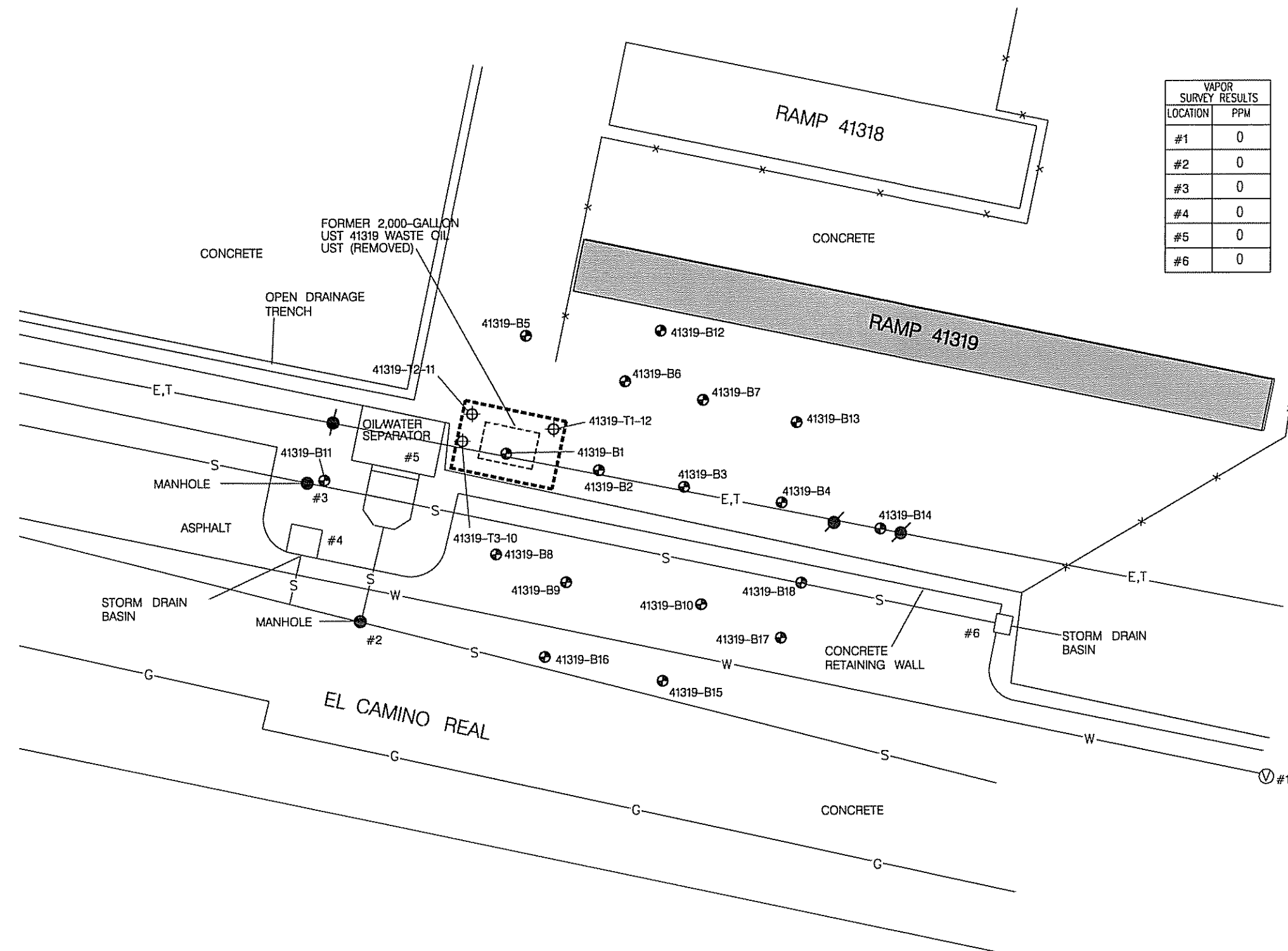
UST SITE 41319
MCB CAMP PENDLETON, CALIFORNIA



NAVY PUBLIC WORKS CENTER
CODE 980
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

Date: 2/10/2005
File No. ls082.dgn

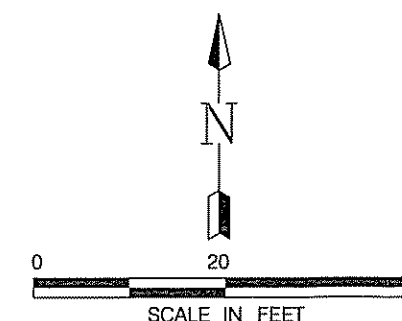
FIGURE 1-2



VAPOR SURVEY RESULTS	
LOCATION	PPM
#1	0
#2	0
#3	0
#4	0
#5	0
#6	0

LEGEND

- W—S— APPROXIMATE LOCATION OF UNDERGROUND STORM DRAIN/SEWER OR WATER LINE
- G----- APPROXIMATE LOCATION OF UNDERGROUND GAS LINE
- C.E.T.----- (ABOVEGROUND) APPROXIMATE LOCATION OF ELECTRICAL TELEPHONE OR CABLE TV CONDUIT
- UTILITY POLE
- ⓪ VAULT
- APPROXIMATE LIMITS OF FORMER UST EXCAVATION
- x---x--- FENCE
- ⊕ SOIL SAMPLE LOCATION (M E I, JULY 94)
- ⦿ SOIL BORING (NINYO & MOORE, NOV/DEC 1999 AND JAN 2000)
- PPM PARTS PER MILLION
- VAPOR SURVEY RESULTS MEASUREMENTS COLLECTED ON 28 APRIL 99 USING A PHOTOVAC 2020 PHOTOIONIZATION DETECTOR



PREVIOUS INVESTIGATION SAMPLE LOCATIONS

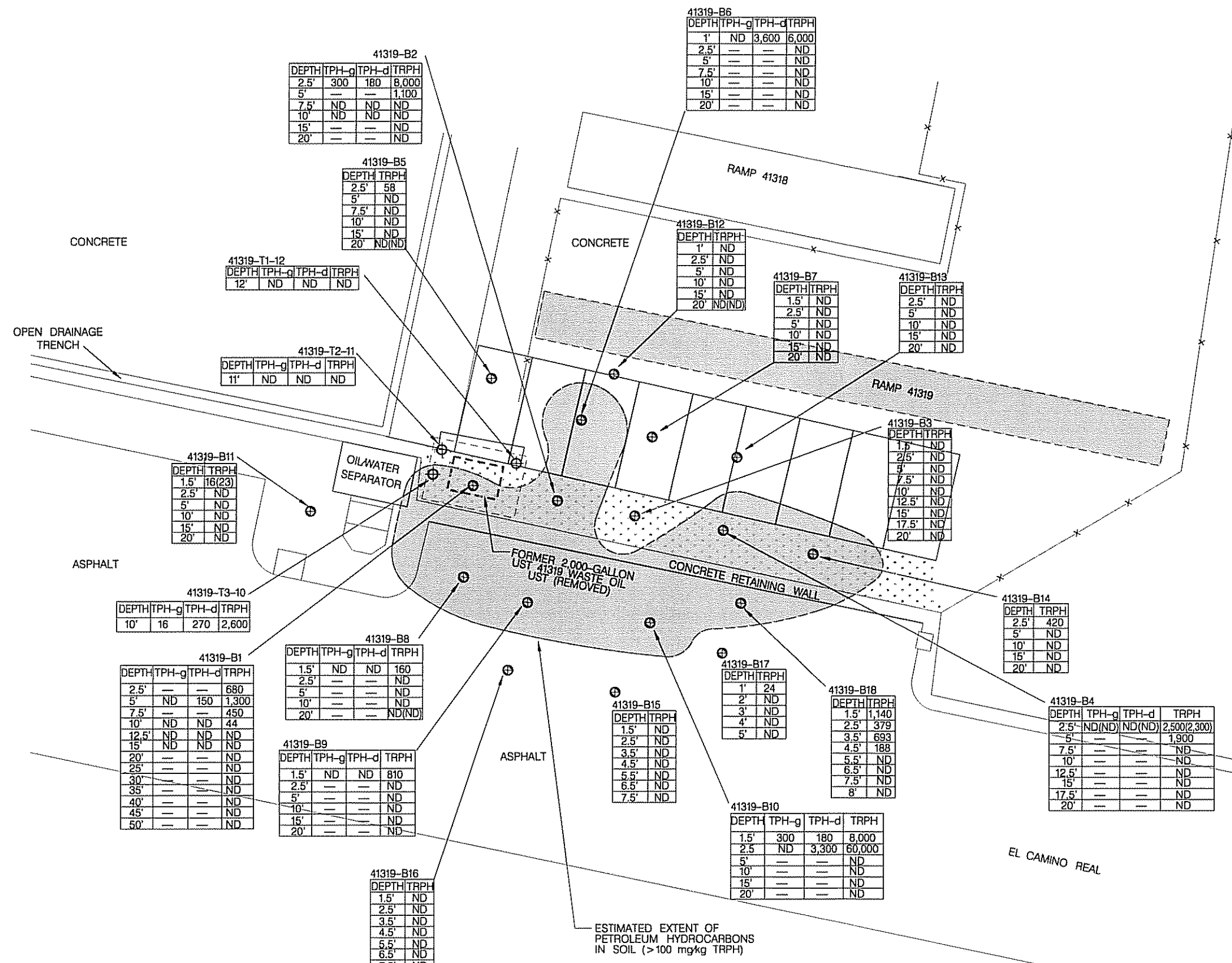
UST SITE 41319
MCB CAMP PENDLETON, CALIFORNIA



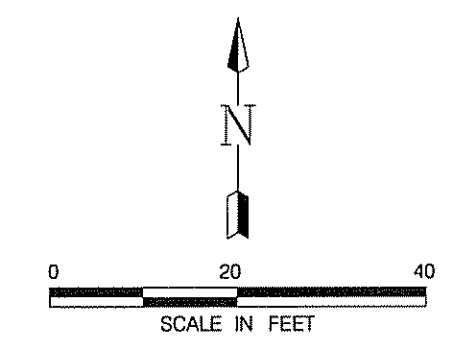
NAVY PUBLIC WORKS CENTER
CODE 980
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

Date: 05/21/2004
File No: is1083.dgn

FIGURE 2-1



- APPROXIMATE LIMITS OF FORMER UST EXCAVATION
- x-x- FENCE
- ⊕ SOIL SAMPLE LOCATION (M E I, JULY 94)
- ⊗ SOIL BORING (NINYO & MOORE, NOV/DEC 1999 AND JAN 2000)
- TRPH TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/kg)
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL FUEL (mg/kg)
- ND NOT DETECTED AT OR ABOVE THE DETECTION LIMIT
- * DIESEL RANGE ORGANICS NOT IDENTIFIED AS DIESEL



PREVIOUS SOIL SAMPLE ANALYTICAL RESULTS
AND ESTIMATED EXTENT OF IMPACT

UST SITE 41319
MCB CAMP PENDLETON, CALIFORNIA

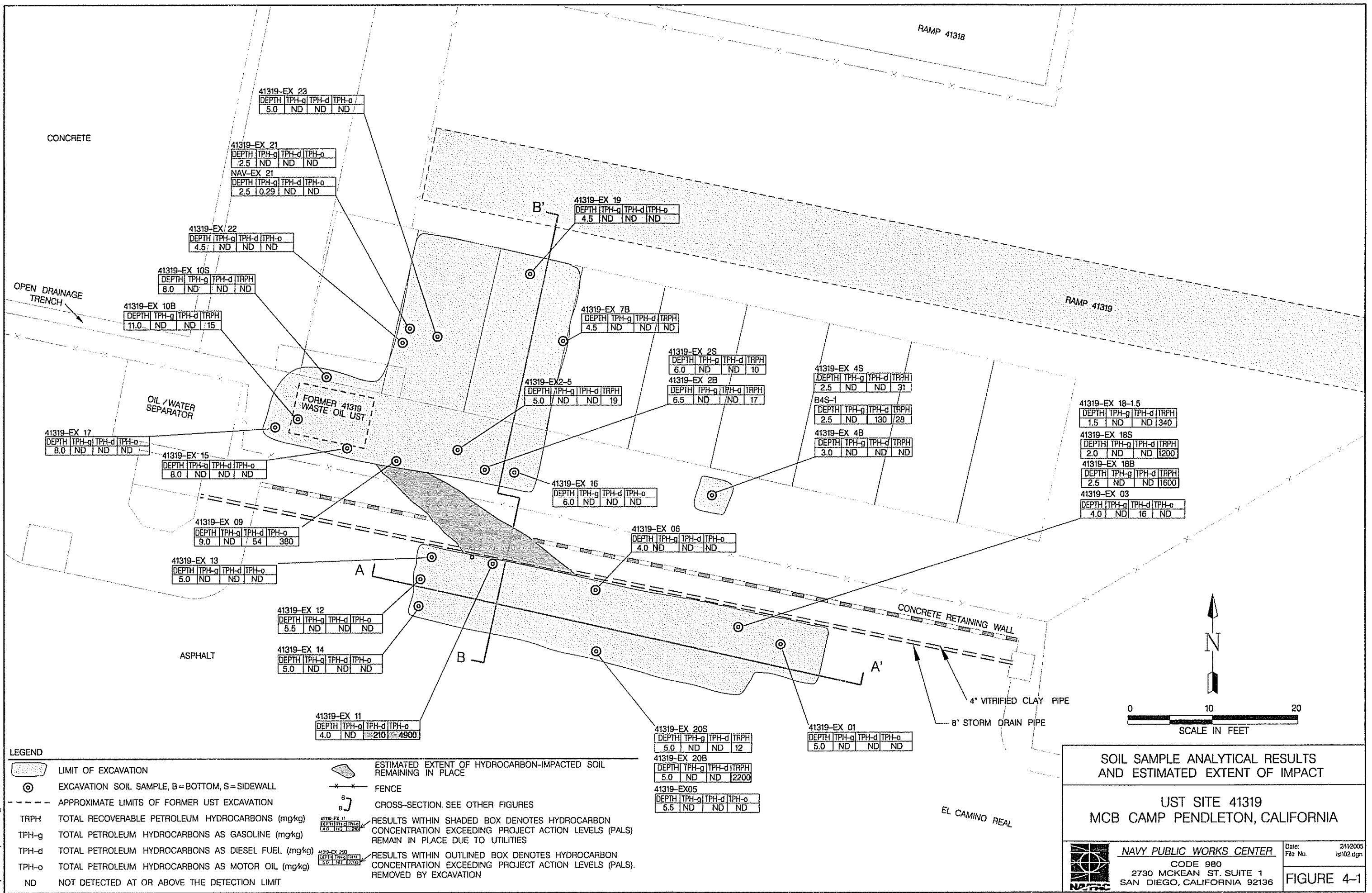
NAVY PUBLIC WORKS CENTER
CODE 980
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

Date: 2/10/2005
File No: is084.dgn

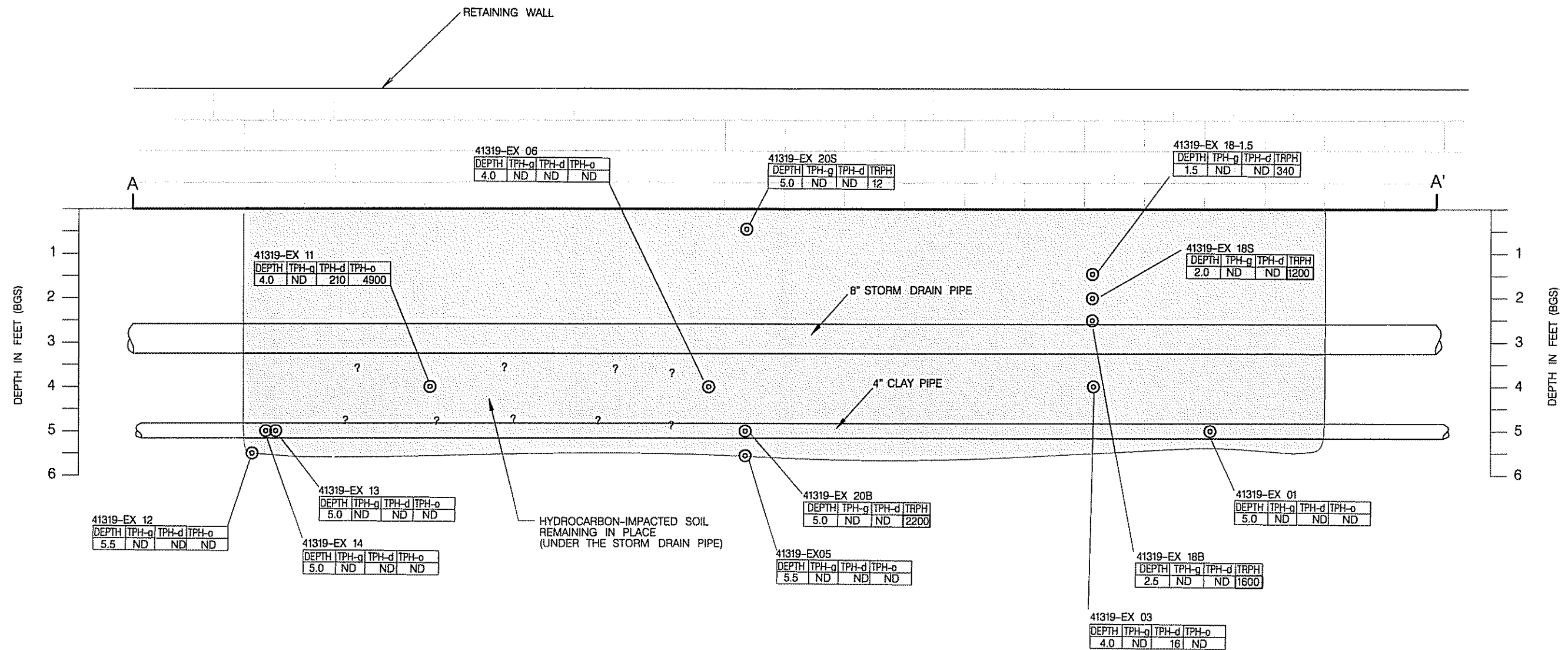
FIGURE 3-1

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Z:\slawa\sl102.dgn



Z:\islawa\isl100.dgn



0 5 10
HORIZONTAL SCALE 1"= 5 FEET
VERTICAL SCALE 1"=2.5 FEET

LEGEND

	LIMIT OF EXCAVATION	41319-EX 11 DEPTH TPH-g TPH-d TPH-o 4.0 ND 210 4900	RESULTS WITHIN SHADED BOX DENOTES HYDROCARBON CONCENTRATION EXCEEDING PROJECT ACTION LEVELS (PALS) REMAIN IN PLACE DUE TO UTILITIES
⊙	SOIL SAMPLE	41319-EX 20B DEPTH TPH-g TPH-d TRPH 5.0 ND ND 2200	RESULTS WITHIN OUTLINED BOX DENOTES HYDROCARBON CONCENTRATION EXCEEDING PROJECT ACTION LEVELS (PALS) REMOVED BY EXCAVATION
TRPH	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)		
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/kg)		
TPH-d	TOTAL PETROLEUM HYDROCARBONS AS DIESEL FUEL (mg/kg)		
TPH-o	TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL (mg/kg)		
ND	NOT DETECTED AT OR ABOVE THE DETECTION LIMIT		

EXCAVATION CROSS-SECTION A-A'

UST SITE 41319
MCB CAMP PENDLETON, CALIFORNIA



NAVY PUBLIC WORKS CENTER
CODE 980
2730 MCKEAN ST. SUITE 1
SAN DIEGO, CALIFORNIA 92136

Date: 2/1/2005
File No. isl100.dgn

FIGURE 4-2

TABLES

Table 4-1
Excavation Soil Analytical Results (mg/kg)

Analytical Laboratory Results from On-Site Lab

Analyte	Method	41319-EX01 ^a EX01 ^b 11/01/2004 ^c	41319-EX03 EX03 11/01/2004	41319-EX05 EX05 11/01/2004	41319-EX06 EX06 11/01/2004	41319-EX09 EX09 11/01/2004	41319-EX11 EX11 11/01/2004	41319-EX12 EX12 11/01/2004	41319-EX13 EX13 11/01/2004
TPH-d	8015M	10U	16	10U	10U	54	210	10U	10U
TPH-g	8015M	10U	10U	10U	10U	10U	10U	10U	10U
TPH-o	8015M	10U	250	10U	10U	380	4900	10U	10U

Analyte	Method	41319-EX14 EX14 11/01/2004	41319-EX15 EX15 11/01/2004	41319-EX16 EX16 11/01/2004	41319-EX17 EX17 11/01/2004	41319-EX19 EX19 11/01/2004	41319-EX21 EX21 11/01/2004	41319-EX22 EX22 11/01/2004	41319-EX23 EX23 11/01/2004
TPH-d	8015M	10U	10U	10U	10U	10U	10U	10U	10U
TPH-g	8015M	10U	10U	10U	10U	10U	10U	10U	10U
TPH-o	8015M	10U	10U	10U	10U	10U	10U	10U	10U

Analyte	Method	41319-EX 2-5 EX2-5 10/19/2004	41319-EX 10B EX10B 10/19/2004	41319-EX 10S EX10S 10/19/2004	41319-EX 2B EX2B 10/19/2004	41319-EX 2S EX2S 10/19/2004	41319-EX 4B EX4B 10/19/2004	41319-EX 4S EX4S 10/19/2004	41319-EX 7B EX7B 10/19/2004
TRPH	418.1	19	15	10U	17	10	39	31	10U
TPH-d	8015M	10U	10U	10U	10U	10U	10U	10U	10U
TPH-g	8015M	10U	10U	10U	10U	10U	10U	10U	10U

Analytical Laboratory Results from Stationary Lab

Analyte	Method	41319-EX 18-1.5 EX18-1.5 10/19/2004	41319-EX 18S EX18S 10/19/2005	41319-EX 18B EX18B 10/19/2006	41319-EX 20B EX20B 10/19/2007	41319-EX 20S EX20S 10/19/2008
TRPH	418.1	340	1200	1600	2200	12
TPH-d	8015M	10U	10U	10U	10U	10U
TPH-g	8015M	10U	10U	10U	10U	10U

42397-01 NAV- EX21 NAV-EX21 11/01/2004	42318-01 B4S-1 B4S-1 10/18/2004
9.2J	28J
11.8U	130
0.29J	9.61UJ

Notes:

a- Sample ID

b - Station ID

d - Collection Date

Results in bold exceed the reporting limits

Acronyms/Abbreviations:

mg/kg - milligrams per kilogram

U - not detected at or above stated reporting limit

J - estimated value

UJ - not detected at or above estimated reporting limit

TPH-d - Total Petroleum Hydrocarbon as diesel

TPH-g - Total Petroleum Hydrocarbon as gasoline

TPH-o - Total Petroleum Hydrocarbon as motor oil

TRPH - Total Recoverable Petroleum Hydrocarbon

TABLE 2-1 – SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
 UST SITE 41319

Sample Location	Sample ID	Date Sampled	Depth (feet bgs)	TRPH (mg/kg)	TPH-G (mg/kg)	TPH-D (mg/kg)	BTEX/MTBE (mg/kg)	Source
UST Excavation	41319-T1-12'	26-Jul-94	12.0	ND	ND	ND	--	A
	41319-T2-11'	26-Jul-94	11.0	ND	ND	ND	--	A
	41319-T3-10'	26-Jul-94	10.0	2,600	16	270	--	A
Boring 41319-B1	41319-B1-02.5	9-Nov-99	2.5	680	--	--	--	B
	41319-B1-05	9-Nov-99	5	1,300 ¹	ND	150 ²	ND	B
	41319-B1-07.5	9-Nov-99	7.5	450	--	--	--	B
	41319-B1-10	9-Nov-99	10	44	ND	ND	ND	B
	41319-B1-12.5	9-Nov-99	12.5	ND	ND	ND	--	B
	41319-B1-15	9-Nov-99	15	ND	ND	ND	--	B
	41319-B1-20	9-Nov-99	20	ND	--	--	--	B
	41319-B1-25	9-Nov-99	25	ND	--	--	--	B
	41319-B1-30	9-Nov-99	30	ND	--	--	--	B
	41319-B1-35	9-Nov-99	35	ND	--	--	--	B
	41319-B1-40	9-Nov-99	40	ND	--	--	--	B
	41319-B1-45	9-Nov-99	45	ND	--	--	--	B
	41319-B1-50	9-Nov-99	50	ND	--	--	--	B
Boring 41319-B2	41319-B2-02.5	9-Nov-99	2.5	8000 ¹	300 ³	180 ²	toluene 0.29	B
							ethylbenzene 0.34	
							xylene 1.5	
	41319-B2-05	9-Nov-99	5	1100	--	--	--	B
	41319-B2-07.5	9-Nov-99	7.5	ND	ND	ND	--	B
	41319-B2-10	9-Nov-99	10	ND	ND	ND	--	B
Boring 41319-B3	41319-B3-01.5	22-Nov-99	1.5	ND	--	--	--	B
	41319-B3-02.5	22-Nov-99	2.5	ND	--	--	--	B
	41319-B3-05	22-Nov-99	5	ND	--	--	--	B
	41319-B3-07.5	22-Nov-99	7.5	ND	--	--	--	B
	41319-B3-10	22-Nov-99	10	ND	--	--	--	B
	41319-B3-12.5	22-Nov-99	12.5	ND	--	--	--	B
	41319-B3-15	22-Nov-99	15	ND	--	--	--	B
	41319-B3-17.5	22-Nov-99	17.5	ND	--	--	--	B
	41319-B3-20	22-Nov-99	20	ND	--	--	--	B

TABLE 2-1 – SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
 UST SITE 41319

Sample Location	Sample ID	Date Sampled	Depth (feet bgs)	TRPH (mg/kg)	TPH-G (mg/kg)	TPH-D (mg/kg)	BTEX/MTBE (mg/kg)	Source
Boring 41319-B4	41319-B4-02.5	22-Nov-99	2.5	2,500 ¹ (2,300 ¹)	ND(ND)	ND(ND)	ND(ND)	B
	41319-B4-05	22-Nov-99	5	1,900 ¹	--	--	--	B
	41319-B4-07.5	22-Nov-99	7.5	ND	--	--	--	B
	41319-B4-10	22-Nov-99	10	ND	--	--	--	B
	41319-B4-12.5	22-Nov-99	12.5	ND	--	--	--	B
	41319-B4-15	22-Nov-99	15	ND	--	--	--	B
	41319-B4-17.5	22-Nov-99	17.5	ND	--	--	--	B
	41319-B4-20	22-Nov-99	20	ND	--	--	--	B
Boring 41319-B5	41319-B5-02.5	22-Nov-99	2.5	58	--	--	--	B
	41319-B5-05	22-Nov-99	5	ND	--	--	--	B
	41319-B5-07.5	22-Nov-99	7.5	ND	--	--	--	B
	41319-B5-10	22-Nov-99	10	ND	--	--	--	B
	41319-B5-15	22-Nov-99	15	ND	--	--	--	B
	41319-B5-20	22-Nov-99	20	ND(ND)	--	--	--	B
Boring 41319-B6	41319-B6-01	22-Nov-99	1	6,000 ¹	ND	3,600	ethylbenzene 0.077 xylenes 0.22	B
	41319-B6-02.5	22-Nov-99	2.5	ND	--	--	--	B
	41319-B6-05	22-Nov-99	5	ND	--	--	--	B
	41319-B6-07.5	22-Nov-99	7.5	ND	--	--	--	B
	41319-B6-10	22-Nov-99	10	ND	--	--	--	B
	41319-B6-15	22-Nov-99	15	ND	--	--	--	B
	41319-B6-20	22-Nov-99	20	ND	--	--	--	B
Boring 41319-B7	41319-B7-01.5	22-Nov-99	1.5	ND	--	--	--	B
	41319-B7-02.5	23-Nov-99	2.5	ND	--	--	--	B
	41319-B7-05	23-Nov-99	5	ND	--	--	--	B
	41319-B7-10	23-Nov-99	10	ND	--	--	--	B
	41319-B7-15	23-Nov-99	15	ND	--	--	--	B
	41319-B7-20	23-Nov-99	20	ND	--	--	--	B

TABLE 2-1 – SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
 UST SITE 41319

Sample Location	Sample ID	Date Sampled	Depth (feet bgs)	TRPH (mg/kg)	TPH-G (mg/kg)	TPH-D (mg/kg)	BTEX/MTBE (mg/kg)	Source
Boring 41319-B8	41319-B8-01.5	23-Nov-99	1.5	160	ND	ND	ND	B
	41319-B8-02.5	23-Nov-99	2.5	ND	--	--	--	B
	41319-B8-05	23-Nov-99	5	ND	--	--	--	B
	41319-B8-10	23-Nov-99	10	ND	--	--	--	B
	41319-B8-20	23-Nov-99	20	ND(ND)	--	--	--	B
Boring 41319-B9	41319-B9-01.5	23-Nov-99	1.5	810	ND	ND	ND	B
	41319-B9-02.5	23-Nov-99	2.5	ND	--	--	--	B
	41319-B9-05	23-Nov-99	5	ND	--	--	--	B
	41319-B9-10	23-Nov-99	10	ND	--	--	--	B
	41319-B9-15	23-Nov-99	15	ND	--	--	--	B
	41319-B9-20	23-Nov-99	20	ND	--	--	--	B
Boring 41319-B10	41319-B10-01.5	23-Nov-99	1.5	810	--	--	--	B
	41319-B10-02.5	23-Nov-99	2.5	60,000 ²	ND	3,300 ¹	toluene 0.21	B
							ethylbenzene 0.45	
							xylene 1.5	
	41319-B10-05	23-Nov-99	5	ND	--	--	--	B
	41319-B10-10	23-Nov-99	10	ND	--	--	--	B
	41319-B10-15	23-Nov-99	15	ND	--	--	--	B
Boring 41319-B11	41319-B11-01.5	23-Nov-99	1.5	16(23)	--	--	--	B
	41319-B11-02.5	23-Nov-99	2.5	ND	--	--	--	B
	41319-B11-05	23-Nov-99	5	ND	--	--	--	B
	41319-B11-10	23-Nov-99	10	ND	--	--	--	B
	41319-B11-15	23-Nov-99	15	ND	--	--	--	B
	41319-B11-20	23-Nov-99	20	ND	--	--	--	B
Boring 41319-B12	41319-B12-01	2-Dec-99	1	ND	--	--	--	B
	41319-B12-02.5	2-Dec-99	2.5	ND	--	--	--	B
	41319-B12-05	2-Dec-99	5	ND	--	--	--	B
	41319-B12-10	2-Dec-99	10	ND	--	--	--	B
	41319-B12-15	2-Dec-99	15	ND	--	--	--	B
	41319-B12-20	2-Dec-99	20	ND(ND)	--	--	--	B

TABLE 2-1 – SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
 UST SITE 41319

Sample Location	Sample ID	Date Sampled	Depth (feet bgs)	TRPH (mg/kg)	TPH-G (mg/kg)	TPH-D (mg/kg)	BTEX/MTBE (mg/kg)	Source
Boring 41319-B13	41319-B13-02.5	2-Dec-99	2.5	ND	--	--	--	B
	41319-B13-05	2-Dec-99	5	ND	--	--	--	B
	41319-B13-10	2-Dec-99	10	ND	--	--	--	B
	41319-B13-15	2-Dec-99	15	ND	--	--	--	B
	41319-B13-20	2-Dec-99	20	ND	--	--	--	B
Boring 41319-B14	41319-B14-02.5	2-Dec-99	2.5	420	--	--	ND	B
	41319-B14-05	2-Dec-99	5	ND	--	--	--	B
	41319-B14-10	2-Dec-99	10	ND	--	--	--	B
	41319-B14-15	2-Dec-99	15	ND	--	--	--	B
	41319-B14-20	2-Dec-99	20	ND	--	--	--	B
Boring 41319-B15	41319-B15-01.5	6-Dec-99	1.5	ND	--	--	--	B
	41319-B15-02.5	6-Dec-99	2.5	ND	--	--	--	B
	41319-B15-03.5	6-Dec-99	3.5	ND	--	--	--	B
	41319-B15-04.5	6-Dec-99	4.5	ND	--	--	--	B
	41319-B15-05.5	6-Dec-99	5.5	ND	--	--	--	B
	41319-B15-06.5	6-Dec-99	6.5	ND	--	--	--	B
	41319-B15-07.5	6-Dec-99	7.5	ND	--	--	--	B
Boring 41319-B16	41319-B16-01.5	6-Dec-99	1.5	ND	--	--	--	B
	41319-B16-02.5	6-Dec-99	2.5	ND	--	--	--	B
	41319-B16-03.5	6-Dec-99	3.5	ND	--	--	--	B
	41319-B16-04.5	6-Dec-99	4.5	ND	--	--	--	B
	41319-B16-05.5	6-Dec-99	5.5	ND	--	--	--	B
	41319-B16-06.5	6-Dec-99	6.5	ND	--	--	--	B
	41319-B16-07.5	6-Dec-99	7.5	ND	--	--	--	B
Boring 41319-B17	41319-B17-01	6-Dec-99	1	24	--	--	--	B
	41319-B17-02	6-Dec-99	2	ND	--	--	--	B
	41319-B17-03	6-Dec-99	3	ND	--	--	--	B
	41319-B17-04	6-Dec-99	4	ND	--	--	--	B
	41319-B17-05	6-Dec-99	5	ND(ND	--	--	--	B

TABLE 2-1 – SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
 UST SITE 41319

Sample Location	Sample ID	Date Sampled	Depth (feet bgs)	TRPH (mg/kg)	TPH-G (mg/kg)	TPH-D (mg/kg)	BTEX/MTBE (mg/kg)	Source
Boring 41319-B18	41319-B18-01.5	7-Jan-00	1.5	1,100	--	78	--	B
	41319-B18-02.5	7-Jan-00	2.5	380	--	ND	--	B
	41319-B18-03.5	7-Jan-00	3.5	690	--	18	--	B
	41319-B18-04.5	7-Jan-00	4.5	190	--	ND	--	B
	41319-B18-05.5	7-Jan-00	5.5	ND	--	ND	--	B
	41319-B18-06.5	7-Jan-00	6.5	ND	--	ND	--	B
	41319-B18-07.5	7-Jan-00	7.5	ND	--	ND	--	B
	41319-B18-08	7-Jan-00	8	ND	--	ND	--	B
Detection Limits				10	*	10	*	

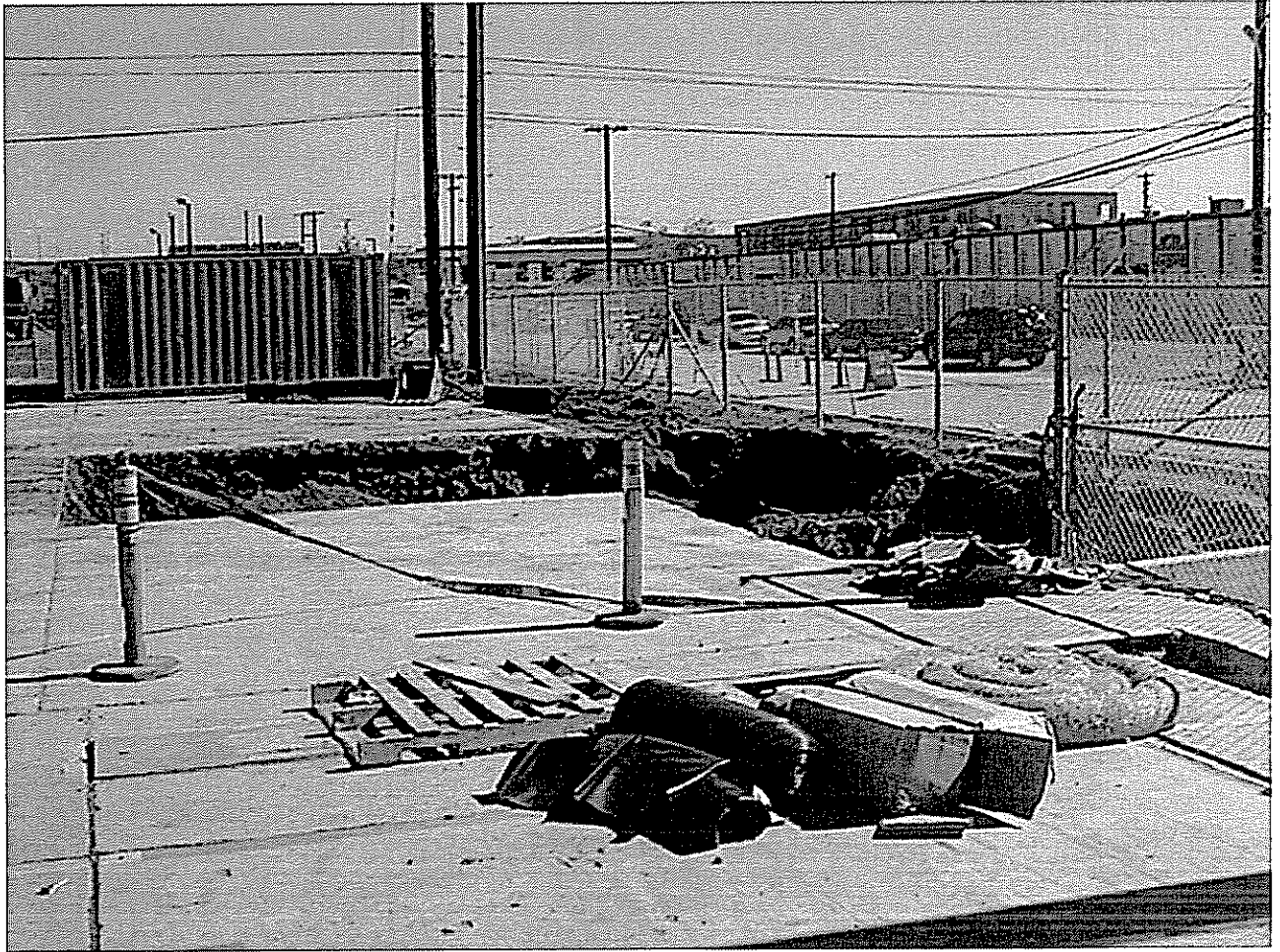
NOTES:

bgs Below ground surface.
 mg/kg Milligrams per kilogram.
 BTEX/MTBE Benzene, toluene, ethylbenzene, xylenes, and methyl-tert-butyl ether by USEPA test method 8021.
 ND Analyte not detected at or above method detection limit.
 TPH-D Total petroleum hydrocarbons as diesel fuel by modified USEPA test method 8015.
 TPH-G Total petroleum hydrocarbons as gasoline by modified USEPA test method 8015.
 TRPH Total recoverable petroleum hydrocarbons by USEPA test method 418.1.
 ' Detection level increased 10 times due to sample dilution.
 ' Hydrocarbons present in diesel-range indicative of unknown heavy hydrocarbons.
 ' Hydrocarbons present in gasoline-range indicative of standard solvent.
 () Laboratory duplicate analysis.
 * Refer to laboratory reports for detection limits.

SOURCES:

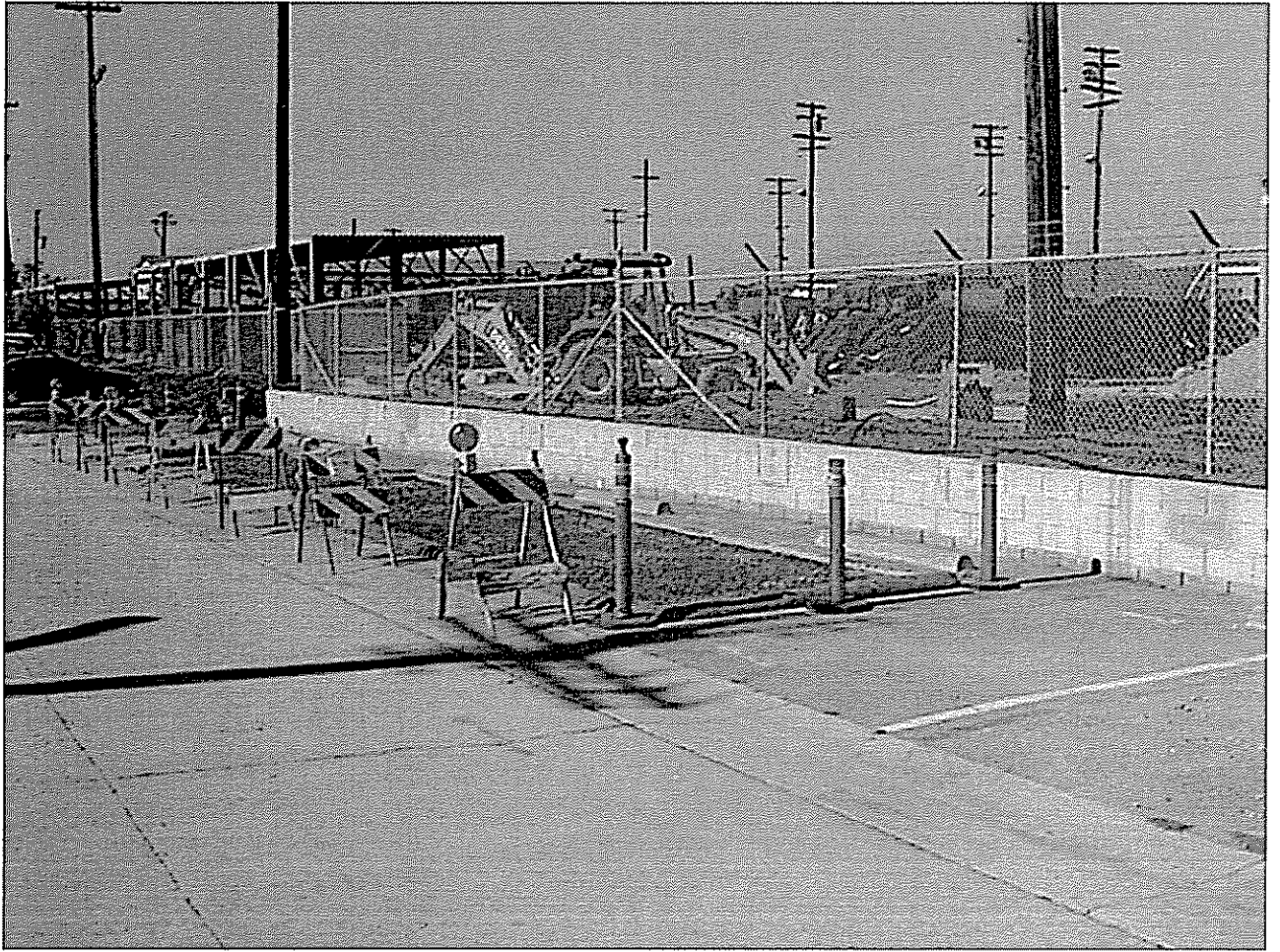
A Minority Enterprises Inc. (M.E.I) data, dated 26 July 94.
 B Ninyo & Moore field assessment November 1999 through January 2000.

APPENDIX A



FORMER UST 41319 – Photo taken facing south.

The former tank is located near the corner of the chain link fence, right hand edge of the photo. The top of the retaining wall can be seen running parallel to the chain link fence. Hydrocarbon-impacted soil remains inaccessible beneath the block retaining wall and the storm water pipe. The storm water pipe is located approximately 3 ft to the west of the block retaining wall and runs parallel to the wall.



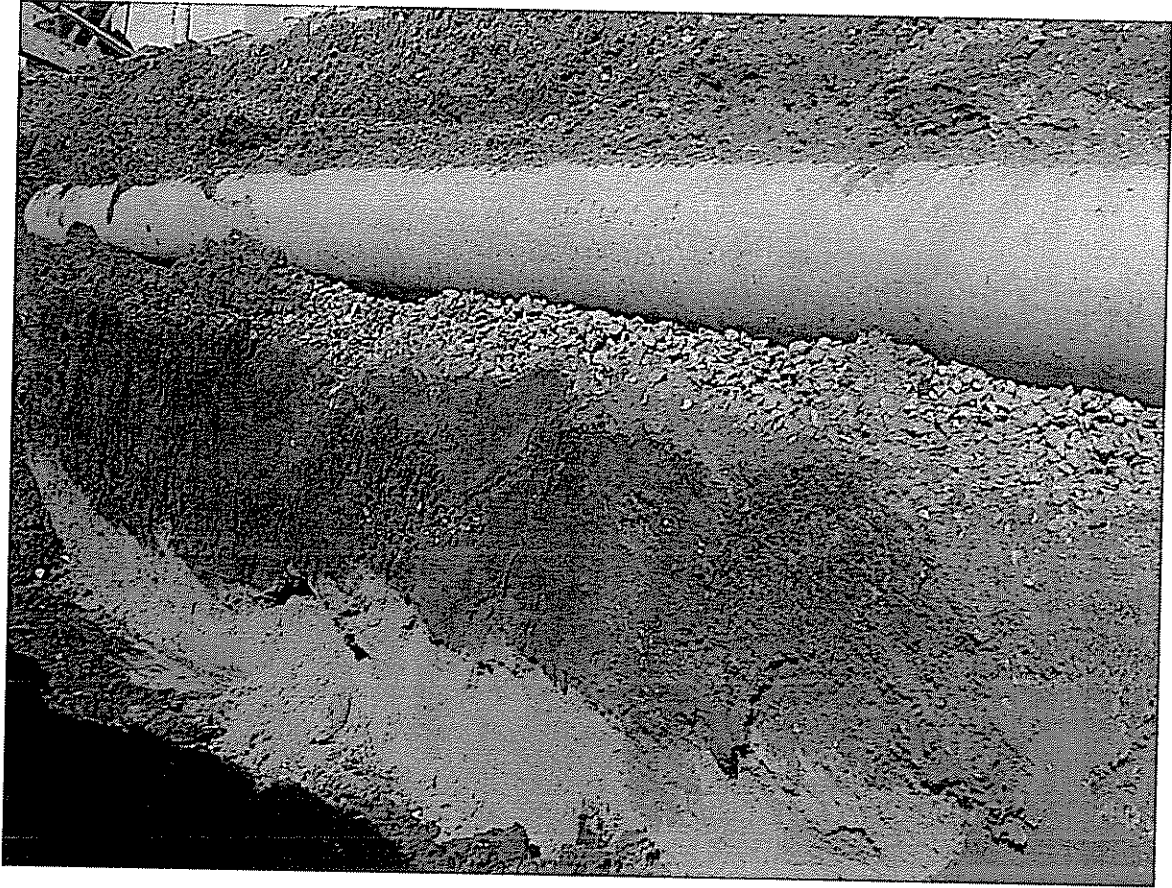
FORMER UST 41319 – Photo taken facing north.

The former tank is located under the rear bucket attached to the backhoe. Hydrocarbon-impacted soil remains inaccessible beneath the storm water pipe and the block retaining wall. The storm water pipe is located approximately 3 ft to the west of the block retaining wall and runs parallel to the wall.



FORMER UST 41319 – View of the retaining wall and storm water pipe.

Hydrocarbon-impacted soil is located beneath the storm water pipe and continues under the wall toward the former tank location.



FORMER UST 41319 – Close-up view of Hydrocarbon-impacted soil located under the storm water pipe.

APPENDIX B

CDC.

Public Works Center Code 010

Phone: (619)545-8431 • Fax: (619)545-0793

CUSTOMER DUE D

[illegible]

SAMPLED BY (PRINT): Craig Havershill

LAB-USE-ONLY

☐ DRINKING WATER (SDWA)☐ DISCHARGE (NPDES/CWA)☐ ABATEMENT (HUD) ☐ OTHER

SEPARATION ADDRESS = 333

☒ RUSH SURCHARGE
PROJ. # 199-01
☐ NAVY IR
☐ OTHER

PHONE: 619-571-4478

PHONE:

FAX: 4-6000

TPH 418.1
TPH 8015m
TPH 8015m

699	Number of Containers/Sample
-----	-----------------------------

2

TIME, 2:40

LIVE.

TIME: 0900

TIME:

COOLER TEMP. _____ degrees C
RECEIVED ON ICE Y ☒ N ☐
☐ GAS USE ONLY ☒ BACT Form

☐ Field notes

☐ Score Form

CORRECT CONTAINER: Y ☐ N ☐

PRESERVED: ☐ Y ☒ N ☐ SIF

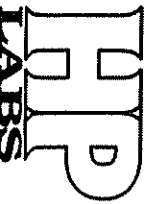
SEAL INTACT: ☐ Y ☒ N ☐ SIF

FED-EX TRACKING # ☐ Y ☐ N ☒ N/A ☐ ☒ Others _____

11-11-11

of applicable 10 = Other

Abstract The purpose of this study was to examine the effects of a 6-week training program on the physical fitness and health-related quality of life (HRQL) of sedentary middle-aged women. A total of 70 women were randomly assigned to either a control group or an exercise group. The exercise group performed a supervised aerobic and resistance training program three times per week. The control group remained sedentary. Pre- and post-training measurements included body composition, cardiovascular fitness, muscular strength, and HRQL. The exercise group showed significant improvements in all measured variables compared to the control group. These findings suggest that a structured exercise program can effectively improve physical fitness and HRQL in sedentary middle-aged women.



Chain of Custody Record

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 10-19-04
HPL Project # AP 1019 D4 W1
Outside Lab: _____

Client: Navy Public Works
Address: 2730 McKean St #1
San Diego CA 92136
Phone: 619-571-4250 Fax: 619-524-6000

Collector: C. Haverstick Page: 1
Client Project # 4136172008 Project Manager C. Haverstick
Location: Tank # 41319 CP Pendleton Area
Turn around time: _____

Notes:

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418 1 TRPH	BTEX / Oxygenates	Oxygenates	VOCs	VOCs and Oxygenates	Methane	Fixed Gases	Sample Receipt	Field Notes	Total # of containers	
41319-EX-25		1100	10/19	SOIL	JAR	X				X								Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Cold: <input type="checkbox"/> Yes <input type="checkbox"/> No N/A (Received on Site)		
41319-EX-108		1000																		
41319-EX-105		1000																		
41319-EX-28		1100																		
41319-EX-25		1100																		
41319-EX-48		1145																		
41319-EX-45		1145																		
41319-EX-78		1230																		
41319-EX-18-1.5		1300																		
41319-EX-185		1300																		
41319-EX-188		1300																		
41319-EX-208		1315																		
41319-EX-205		1315																		
41319-																				
Relinquished by: (Signature) <u>Craig Haverstick</u> (company) _____ Date: <u>10-19-04</u> Time: _____						Received by: (Signature) <u>Craig Haverstick</u> (company) _____ Date: _____ Time: _____														
Relinquished by: (Signature) _____ (company) _____						Received by: (Signature) _____ (company) _____														

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instructions:

☐ Disposal @ \$2.00 each

☐ Return to client

☐ Pickup

Chain of Custody Record

Date: 11/1/04

H&P Project # NP1004-23

Outside Lab: _____

H&P 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Client: Navy Puse

Address: _____

Phone: _____

Fax: _____

Global ID: T060073016677

EDF: Yes / No

Sample Receipt

Intact: ☒ Yes ☐ NoSeal Intact: ☐ Yes ☐ No ☐ N/ACold: ☐ Yes ☐ No

N/A (Received on Site)

Collector: Gary Havershtek

Page: 1 of 2

Client Project # H3617-09-0087/only 11317

Location: Camp Pendleton Area 41

Turn around time: _____

8260B

Total # of containers

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418 1 TRPH	BTEX / Oxygenates	Oxygenates	VOC's	VOC's and Oxygenates	Methane	Fixed Gases
41319-Ex01			0845	11/01	Soil	402	X	X									
-Ex03			0845				X	X									
-Ex05			0845				X	X									
-Ex06			0845				X	X									
-Ex09			0920				X	X									
-Ex11			1010				X	X									
-Ex12			1010				X	X									
-Ex13			1015				X	X									
-Ex14			1015				X	X									
-Ex15			1200				X	X									
-Ex16			1200				X	X									
-Ex17			1200				X	X									
-Ex21			1245				X	X									
-Ex23			1245				X	X									

Relinquished by: (Signature)

Craig Havershtek

(company)

Puse

(company)

Received by: (Signature)

Gary Havershtek

(company)

H3617

(company)

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Date: 11/1/04

Time: 1600

Relinquished by: (Signature)

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(company)

(company)

(company)

Signature consili

Authorization to proceed with analysis and acceptance of condition on back.

Sample dispo

from:

☐

Disposal @ \$2.00 each

☐

Return to client

☐

Pickup

APPENDIX C

17030

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACLS Envir Serv Generator

APN: 04-93 Manifest No. 38796

Carrier: Burto 966H

Truck License No. CP55864

Truck Trailer No. GT54086

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 39.27

[] TARE: 14.35

NET TONS: 24.92

Candelaria Environmental - Weighmaster
Gross & Tare

By: [Signature] Deputy

11-8-04

Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38796

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055
PHONE NO: (760) 725-9752
APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: UST LEAKS
COMPONENTS OF WASTE (PPM): COMPONENTS OF WASTE (PPM):

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: Kim Bergeron DATE: 11-8-04
Signature / Print or Type Full Name

HAULER

COMPANY NAME: Bud's PHONE NO: (619) 443-4200
ADDRESS: PO Box 1521 SERVICE ORDER NO.:
CITY, STATE, ZIP: LAKEVIEW PICK UP DATE: 11-8-04
TRUCK TYPE: DUMP ☒ ROLL OFF ☐ OTHER ☐

TRUCK LIC. #: CP55864 TRUCK ID #: 966-14

DRIVER NAME: JOHN STARK TRAILER LIC. #: GT89086

DRIVER SIGNATURE: [Signature] TRAILER ID #: 966-147

PROCESSOR

TIME LEFT JOB: 7:50 LOAD #: 1

JOB SITE REPRESENTATIVE: Alex Clark
Name Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(909) 763-0128

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24^{hr} Emergency (619) 696-6207

[Signature]

17029

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 6 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACLS ENVIRAPN: 04-93 Manifest No. 38797 GeneratorCarrier: Budo 966-15Truck License No. CP64237Truck Trailer No. UEL1321

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 37.01[] TARE: 14.84NET TONS: 22.17Candelaria Environmental - Weighmaster
Gross & TareBy: Lynne Thompson Deputy11-8-04 Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

№ 38797

GENERATOR

NAME: <u>AC/S ENVIRONMENTAL SECURITY (SITE 41319)</u>	
ADDRESS: <u>P.O. BOX 555008</u>	PHONE NO: <u>(760) 725-9752</u>
CITY, STATE, ZIP: <u>CAMP PENDLETON, CA 92055</u>	APN: <u>2004-93</u>
WASTE DESCRIPTION: <u>NON-HAZ SOIL</u> GENERATING PROCESS: <u>JUST LEAKS</u>	
COMPONENTS OF WASTE (PPM): <u>PETROLEUM-CONTAMINATED SOIL</u>	COMPONENTS OF WASTE (PPM):
PROPERTIES: SOLID <u>YES</u>	
HANDLING INSTRUCTIONS: <u>WEAR APPROPRIATE CLOTHING</u>	
GENERATOR CERTIFIES THAT THESE WASTES ARE NOT NON-HAZARDOUS, AND CALIFORNIA NON- HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA	
BY: <u>Kim Bergeron</u>	DATE: <u>11/8/04</u>
Signature / Print or Type Full Name	

HAULER

COMPANY NAME: <u>BUDS</u>	PHONE NO: <u>(619) 443-4200</u>
ADDRESS: <u>PO BOX 1521</u>	SERVICE ORDER NO: <u> </u>
CITY, STATE, ZIP: <u>LAKEVIEW</u>	PICK UP DATE: <u>11-8-04</u>
TRUCK TYPE: DUMP <u>X</u> ROLL OFF <u> </u> OTHER <u> </u>	
TRUCK LIC #: <u>CP64237</u>	TRUCK ID #: <u>966-15</u>
DRIVER NAME: <u>EMMITT GLOVER</u>	TRAILER LIC. #: <u>4EL1324</u>
DRIVER SIGNATURE: <u>Emmitt Glover</u>	TRAILER ID #: <u>966-15T</u>

PROCESSOR

TIME LEFT JOB: <u>8:00</u>	LOAD #: <u>2</u>
JOB SITE REPRESENTATIVE: <u>Craig Haverstick</u>	<u>CA</u>
Name	Signature

Deliver to facility Location: CANDELARIA ENVIRONMENTAL 4001 Candelaria Lane Anza, CA 92539 (909) 763-0129	Main office: Phone: (619) 696-6207 FAX (619) 896-5117 24 hr Emergency (619) 696-6207
--	---

[Handwritten signature]

17031

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: Act. S. Envir. Serv.

APN: 04-93 Manifest No. 38798

Carrier: Budo 966-12

Truck License No. CP00063

Truck Trailer No. GT58448

Commodity: Non-Hazardous Sol/Material

WEIGHTS: [] GROSS: 37.59

[] TARE: 14.35

NET TONS: 23.24

Candelaria Environmental - Weighmaster
Gross & Tare

By: Lynne Munford

Deputy

11-8-04
Date Weighed

NOV 12 04 10:51 AM 002 P.00

No 38798

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008 PHONE NO: (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: UST LEAKS
COMPONENTS OF WASTE (PPM): _____ COMPONENTS OF WASTE (PPM): _____

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: Kim Bergeron
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME: BUDS PHONE NO: (619) 443-4200
ADDRESS: PO Box 1521 SERVICE ORDER NO: _____
CITY, STATE, ZIP: LAKEVIEW PICK UP DATE: 11-8-04
TRUCK TYPE: DUMP X ROLL OFF _____ OTHER _____

TRUCK LIC. # CP40063

TRUCK ID # 966-12

DRIVER NAME: [Signature]

TRAILER LIC. # GT58448

DRIVER SIGNATURE: [Signature]

TRAILER ID # 966-12T

PROCESS

TIME LEFT JOB: 0820

LOAD # 3

JOB SITE REPRESENTATIVE: Craig Haverstick

Name

[Signature]
Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(909) 763-0129

Main office:
Phone: (619) 696-8207
FAX (619) 696-5117
24^{hr} Emergency (619) 696-6207

[Signature]

17032

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACIS Envir SewAPN: 04-93 Manifest No. 38799 ^{Generator}Carrier: Buel 966-10Truck License No. CP40062Truck Trailer No. 4EC6780

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 37.29
[] TARE: 14.39
NET TONS: 22.90

Candelaria Environmental - Weighmaster
Gross & Tare

By: [Signature] ^{Deputy}11-8-04

Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38799

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008 PHONE NO: (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: UST LEAKS
COMPONENTS OF WASTE (PPM): _____ COMPONENTS OF WASTE (PPM): _____

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE NOT NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: Kim Bergeron
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME: Buds PHONE NO: (619) 443-4200
ADDRESS: Po Box 1521 SERVICE ORDER NO: _____
CITY, STATE, ZIP: Lakeside, CA PICK UP DATE: 11-8-04
TRUCK TYPE: DUMP ☒ ROLL OFF _____ OTHER _____

TRUCK LIC # CP40062

TRUCK ID # 966-10

DRIVER NAME: BILL BRAX TRAILER LIC # 4EC6780

DRIVER SIGNATURE: [Signature] TRAILER ID # 966-10T

PROCESSOR

TIME LEFT JOB: 0840

LOAD # 4

JOB SITE REPRESENTATIVE: COLG HAYESTICK
Name

CA
Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(909) 763-0129

Main office:
Phone: (619) 696-6207
FAX: (619) 696-5117
24^{hr} Emergency: (619) 696-6207

[Signature]

17033

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACIS Envir ServAPN: 04-93 Manifest No. 38800 ^{Generator}Carrier: SBT B-2Truck License No. 4R81659Truck Trailer No. 1U73240

Commodity: Non-Hazardous Solid Material

WEIGHTS: [] GROSS: 39.12[] TARE: 15.40NET TONS: 23.72

Candelaria Environmental - Weighmaster
Gross & Tare

By: [Signature] ^{Deputy}11-8-04
Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

N^o 38800

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
 ADDRESS: P.O. BOX 555008 PHONE NO. (760) 725-9752
 CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION NON-HAZ SOIL GENERATING PROCESS UST LEAKS
 COMPONENTS OF WASTE (PPM) COMPONENTS OF WASTE (PPM)

PETROLEUM-CONTAMINATED SOIL

PROPERTIES SOLID YES
 HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: K. Bryan Kim Wargoren DATE: 11-8-04
 Signature / Print or Type Full Name

HAULER

COMPANY NAME SBT PHONE NO. (619) 443-4200
 ADDRESS PALA RD SERVICE ORDER NO.
 CITY, STATE, ZIP PALA CA PICK UP DATE 11-8-04
 TRUCK TYPE: DUMP X ROLL OFF OTHER

TRUCK LIC. # 4R81659 TRUCK ID # B-2

DRIVER NAME JEFF BRAZELTON TRAILER LIC # 1VT3240

DRIVER SIGNATURE Jeff Brazelton TRAILER ID # B-2A

PROCESS

TIME LEFT JOB 0855 LOAD # 5

JOB SITE REPRESENTATIVE Craig Haverstick CAH
 Name Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
 4001 Candelaria Lane
 Anza, CA 92539
 (909) 763-0129

Main office:
 Phone: (619) 696-6207
 FAX (619) 696-5117
 24^{hr} Emergency (619) 696-6207

17034

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACE/SENVIR. SEC Generator

APN: 04-03 Manifest No. 358801

Carrier: JBT B-1

Truck License No. TB 4123178

Truck Trailer No. 21C83055

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 38.38

[] TARE: 15.56

NET TONS: 2282

Candelaria Environmental - Weighmaster
Gross & Tare

By: Lynne Munford Deputy

11-8-04 Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38801

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008 PHONE NO. (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION NON-HAZ SOIL GENERATING PROCESS JUST LEAKS
COMPONENTS OF WASTE (PPM) COMPONENTS OF WASTE (PPM)

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: Kim Bergeron DATE: 11-8-04
Signature / Print or Type Full Name

HAULER

COMPANY NAME JBT PHONE NO. (619) 443-4200
ADDRESS PALA RD SERVICE ORDER NO.
CITY, STATE, ZIP PALA CA PICK UP DATE 11-8-04
TRUCK TYPE: DUMP X ROLL OFF OTHER

TRUCK LIC. # 2K83055 TRUCK ID # B-1

DRIVER NAME Roberto Villalpando TRAILER LIC. # YD 3178

DRIVER SIGNATURE Roberto V. TRAILER ID # B-1A

PROCESSOR

TIME LEFT JOB 0905 LOAD # 6

JOB SITE REPRESENTATIVE CRAIG HAVERSTICK CA
Name Signature

Deliver to facility Location.
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24 hr Emergency (619) 696-6207

17042

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Ana, California 92539
909-763-0129

Weighed For: ACLS Envir ServAPN: 04-93 Manifest No. 38802Carrier: Budo 966-14Truck License No. CPS 5864Truck Trailer No. G+84076

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 38.94[] TARE: 14.35NET TONS: 24.64

Candelaria Environmental - Weighmaster
Gross & Tare

By: Lynna Nunez

Deputy

11-8-24

Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38802

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008 PHONE NO: (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: UST LEAKS
COMPONENTS OF WASTE (PPM): _____ COMPONENTS OF WASTE (PPM): _____

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: K. Berg Kira Bergeron
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME: Buds Trucking PHONE NO: (619)-443-4200
ADDRESS: P.O. Box 1521 SERVICE ORDER NO: _____
CITY, STATE, ZIP: LAKE SID PICK UP DATE: 11-08-04
TRUCK TYPE: DUMP X ROLL OFF _____ OTHER _____

TRUCK LIC # CP55864 TRUCK ID # 966-14

DRIVER NAME: John W. Shull TRAILER LIC # GT84086

DRIVER SIGNATURE: [Signature] TRAILER ID # 966-14T

PROCESS

TIME LEFT JOB: 1230

LOAD #: 7

JOB SITE REPRESENTATIVE: Craig Haverstick

Name

Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24^{hr} Emergency (619) 696-6207

[Signature]

17041

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 6 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACS Envir SecAPN: 04-93 Manifest No. 38803Carrier: Budo 9665Truck License No. OP64237Truck Trailer No. UEU3W

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 4017[] TARE: 1484NET TONS: 25.93Candelaria Environmental - Weighmaster
Gross & TareBy: Lynne Munford

Deputy

11-8-04

Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38803

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)	
ADDRESS: P.O. BOX 555008	PHONE NO. (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055	APN: 2004-93
WASTE DESCRIPTION: NON-HAZ SOIL	GENERATING PROCESS: JUST LEAKS
COMPONENTS OF WASTE (PPM):	COMPONENTS OF WASTE (PPM):
PETROLEUM-CONTAMINATED SOIL	
PROPERTIES: SOLID YES	
HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING	

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: K. Bergerson Kim Bergerson DATE: 11-8-04
Signature / Print or Type Full Name

HAULER

COMPANY NAME: BUDS	PHONE NO: (619) 443-4200
ADDRESS: PO Box 1521	SERVICE ORDER NO:
CITY, STATE, ZIP: LAKEVIEW CA	PICK UP DATE: 11-08-04
TRUCK TYPE: DUMP <input checked="" type="checkbox"/> ROLL OFF <input type="checkbox"/> OTHER <input type="checkbox"/>	
TRUCK LIC. #: CP 64237	TRUCK ID #: 966-15
DRIVER NAME: <u>Emmitt Glover</u>	TRAILER LIC. #: <u>966-15</u> ^{CAH} 4EL1324
DRIVER SIGNATURE: <u>Emmitt Glover</u>	TRAILER ID #: 966-157

PROCESSOR

TIME LEFT JOB: 1240	LOAD #: 8
JOB SITE REPRESENTATIVE: <u>Craig Haverstick</u>	
Name	Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone (619) 696-6207
FAX (619) 696-5117
24 hr Emergency (619) 696-6207

17043

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: Acis Envir Soc

APN: 041-93 Manifest No. 38804 Generator

Carrier: Bush 96-6-12

Truck License No. CPL12263

Truck Trailer No. G-T 58448

Commodity: Non-Hazardous Soil/Material

WEIGHTS: ☐ GROSS: 39.10
☐ TARE: 14.31
NET TONS: 24.75

Candelaria Environmental - Weighmaster
Gross & Tare

By: Lynne Murphy Deputy

11-8-04 Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38804

GENERATOR

NAME AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS P.O. BOX 555008 PHONE NO. (760) 725-9752
CITY, STATE, ZIP CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION NON-HAZ SOIL GENERATING PROCESS UST LEAKS
COMPONENTS OF WASTE (PPM) COMPONENTS OF WASTE (PPM)

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES
HANDLING INSTRUCTIONS WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: K. Bay Kim Bergeron
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME BUDS PHONE NO. (619) 443-4200
ADDRESS PO BOX 1521 SERVICE ORDER NO. _____
CITY, STATE, ZIP LAKEVILLE CA PICK UP DATE 11-08-04
TRUCK TYPE: DUMP X ROLL OFF _____ OTHER _____

TRUCK LIC # CP40063 TRUCK ID # 966-12

DRIVER NAME [Signature] TRAILER LIC # GT58448

DRIVER SIGNATURE [Signature] TRAILER ID # 966-12T

PROCESSOR

TIME LEFT JOB 1300 LOAD # 9

JOB SITE REPRESENTATIVE Craig Haverstick
Name

[Signature]
Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 783-0129

Main office:
Phone (619) 696-6207
FAX (619) 696-5117
24^{hr} Emergency (619) 696-6207

[Signature]

17044

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 6 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: Ac/S Envir. Serv

APN: 04-93 Manifest No. 3880

Carrier: Budo 966-10

Truck License No. CP40082

Truck Trailer No. 4EC6780

Commodity: Non-Hazardous Soil/Material

WEIGHTS: [] GROSS: 39.74

[] TARE: 14.39

NET TONS: 25.35

Candelaria Environmental - Weighmaster
Gross & Tare

By: [Signature]

11-8-04

Date Weighed

CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST

No 38805

GENERATOR

NAME AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 553008 PHONE NO. (760) 725-9752
CITY, STATE, ZIP CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION NON-HAZ SOIL GENERATING PROCESS UST LEAKS
COMPONENTS OF WASTE (PPM) COMPONENTS OF WASTE (PPM)

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: K. Bergerson Kim Bergerson
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME BUDS PHONE NO. (619) 443-4200
ADDRESS PO Box 1521 SERVICE ORDER NO. _____
CITY, STATE, ZIP LAKESIDE CA PICK UP DATE 11-08-04
TRUCK TYPE: DUMP X ROLL OFF _____ OTHER _____

TRUCK LIC. # CP40062 TRUCK ID # 966-10

DRIVER NAME BILL BEATY TRAILER LIC. # 4EC6780

DRIVER SIGNATURE B. Beaty TRAILER ID # 966-10T

PROCESSOR

TIME LEFT JOB 1310 LOAD # 10

JOB SITE REPRESENTATIVE Craig Haverstick
Name

Craig Haverstick
Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24" Emergency (619) 696-6207

17045

WEIGHMASTER CERTIFICATE

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Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACLS Envir. Sec Generator

APN: 04-93 Manifest No. 38806

Carrier: JB B-2

Truck License No. 4R81659

Truck Trailer No. 1N1340

Commodity: Non-Hazardous Sol/Material

WEIGHTS: [] GROSS: 36.00

[] TARE: 15.40

NET TONS: 2264

Candelaria Environmental - Weighmaster
Gross & Tare

By: Lynne Muniford Deputy

11-8-04 Date Weighed

CANDELARIA ENVIRONMENTAL

Nº 38806

BIOTREATMENT FACILITY**NON-HAZARDOUS MATERIALS HAULING MANIFEST**G
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NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055
PHONE NO. (760) 725-9752
APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: UST LEAKS
COMPONENTS OF WASTE (PPM): COMPONENTS OF WASTE (PPM):

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES
HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: V. Ber Kim Bergeron DATE: 11-8-04
Signature / Print or Type Full Name

H
A
U
L
E
R

COMPANY NAME: SBT
ADDRESS: Pala RD
CITY, STATE, ZIP: Pala CA
TRUCK TYPE: DUMP ☒ ROLL OFF ☐ OTHER ☐
PHONE NO. (619)-443-4200
SERVICE ORDER NO.
PICK UP DATE: 11-08-04

TRUCK LIC # 4281657 TRUCK ID # B-2

DRIVER NAME: JEFF BRAZELTON TRAILER LIC # 1VT3240

DRIVER SIGNATURE: Jeff Brazelton TRAILER ID # B-2A

P
R
O
C
E
S
S
O
R

TIME LEFT JOB: 1325 LOAD # 11

JOB SITE REPRESENTATIVE: Craig Haverstick CAH
Name Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24 hr Emergency (619) 696-6207

17046

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 6 of the California Business and Professions Code, administered by the Division of Measurements Standards of the California Department of Food and Agriculture

Delivered To & Weighed At:

Candelaria Environmental - Weighmaster
4001 Candelaria Lane
Anza, California 92539
909-763-0129

Weighed For: ACS Envir SocAPN: EX-93 Manifest No. 38807 ^{Register}Carrier: JST B-1Truck License No. 2168305

Truck Trailer No. _____

Commodity: Non-Hazardous Sol/Material

WEIGHTS: [] GROSS: 1666[] TARE: 1090NET TONS: 5.76Candelaria Environmental - Weighmaster
Gross & TareBy: Dwayne Munford ^{Deputy}11-8-04 ^{Date Weighed}

**CANDELARIA ENVIRONMENTAL
BIOTREATMENT FACILITY
NON-HAZARDOUS MATERIALS HAULING MANIFEST**

Nº 38807

LAST LOAD CLEAN UP

GENERATOR

NAME: AC/S ENVIRONMENTAL SECURITY (SITE 41319)
ADDRESS: P.O. BOX 555008 PHONE NO. (760) 725-9752
CITY, STATE, ZIP: CAMP PENDLETON, CA 92055 APN: 2004-93

WASTE DESCRIPTION: NON-HAZ SOIL GENERATING PROCESS: JUST LEAKS
COMPONENTS OF WASTE (PPM): _____ COMPONENTS OF WASTE (PPM): _____

PETROLEUM-CONTAMINATED SOIL

PROPERTIES: SOLID YES

HANDLING INSTRUCTIONS: WEAR APPROPRIATE CLOTHING

GENERATOR CERTIFIES THAT THESE WASTES ARE RCRA NON-HAZARDOUS, AND CALIFORNIA NON-
HAZARDOUS, BASED ON THE INFORMATION PROVIDED BY THE GENERATOR ON THE SOIL ACCEPTANCE
APPLICATION AND THE ACCOMPANYING LABORATORY DATA

BY: Kim Bergeron
Signature / Print or Type Full Name

DATE: 11-8-04

HAULER

COMPANY NAME: SBT PHONE NO.: 619 443 4200
ADDRESS: Pala RD SERVICE ORDER NO.: _____
CITY, STATE, ZIP: Pala CA PICK UP DATE: 11-08-04
TRUCK TYPE: DUMP ☒ ROLL OFF _____ OTHER _____

TRUCK LIC. #: 2K83055 TRUCK ID #: B-1

DRIVER NAME: Roberto Villalobos TRAILER LIC. #: YD3178

DRIVER SIGNATURE: [Signature] TRAILER ID #: B-1A

PROCESSOR

TIME LEFT JOB: 1355 LOAD #: 12

JOB SITE REPRESENTATIVE: Craig Haverstick CA
Name Signature

Deliver to facility Location:
CANDELARIA ENVIRONMENTAL
4001 Candelaria Lane
Anza, CA 92539
(951) 763-0129

Main office:
Phone: (619) 696-6207
FAX (619) 696-5117
24 hr Emergency (619) 696-6207

LAST LOAD CLEAN UP

APPENDIX D

October 26, 2004

Mr. Craig Haverstick
Navy Public Works Center
2730 McKean Street
Suite 1
San Diego, CA 92136-5294

**SUBJECT: DATA REPORT – TANK 41319 – AREA 41 - CAMP PENDLETON, CA -
NAVY PWC PROJECT #11361702008**

H&P Project # NP101904W1

Mr. Haverstick:

Please find enclosed a data report for the above referenced location. Soil samples were analyzed on-site in DOHS certified mobile laboratory (CERT #1745).

Project Summary

The following analyses were conducted:

- 13 soils for total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1
- 13 soils for total petroleum hydrocarbons (TPH) by DHS LUFT/8015M Method

The samples were received on-site in appropriate containers with appropriate labels, seals, and chain-of-custody documentation

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfill quality control criteria.

H&P Mobile GeoChemistry appreciates the opportunity to provide analytical services to Navy Public Works Center on this project. If you have any questions relating to this data or report, please do not hesitate to contact us

Sincerely,


Dr. Blayne Hartman

Navy PWC
 2730 McKean Str , Suite 1
 San Diego CA , 92136-5294

Project: NP101904-W1
 Project Number: 11361702008; Tank 41319
 Project Manager: Mr Craig Haverstick

Reported:
 26-Oct-04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
41319-EX 2-5	W410007-01	Soil	19-Oct-04	19-Oct-04
41319-EX 10B	W410007-02	Soil	19-Oct-04	19-Oct-04
41319-EX 10S	W410007-03	Soil	19-Oct-04	19-Oct-04
41319-EX 2B	W410007-04	Soil	19-Oct-04	19-Oct-04
41319-EX 2S	W410007-05	Soil	19-Oct-04	19-Oct-04
41319-EX 4B	W410007-06	Soil	19-Oct-04	19-Oct-04
41319-EX 4S	W410007-07	Soil	19-Oct-04	19-Oct-04
41319-EX 7B	W410007-08	Soil	19-Oct-04	19-Oct-04
41319-EX 18-1 S	W410007-09	Soil	19-Oct-04	19-Oct-04
41319-EX 18S	W410007-10	Soil	19-Oct-04	19-Oct-04
41319-EX 18B	W410007-11	Soil	19-Oct-04	19-Oct-04
7-EX 20B	W410007-12	Soil	19-Oct-04	19-Oct-04
19-EX 20S	W410007-13	Soil	19-Oct-04	19-Oct-04

Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP101904-W1
Project Number: 11361702008; Tank 41319
Project Manager: Mr Craig Haverstick

Reported:
26-Oct-04

Soil Analyses

H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX 2-5 (W410007-01) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	19	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 10B (W410007-02) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	15	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 10S (W410007-03) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	ND	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
EX 2B (W410007-04) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	17	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 2S (W410007-05) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	10	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 4B (W410007-06) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	39	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	

Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP101904-W1
Project Number: 11361702008; Tank 41319
Project Manager: Mr Craig Haverstick

Reported:
26-Oct-04

Soil Analyses

H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX 4S (W410007-07) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	31	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 7B (W410007-08) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	ND	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 18-1.5 (W410007-09) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	340	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
EX 18S (W410007-10) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	1200	100	mg/kg	10	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	1	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 18B (W410007-11) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	1600	100	mg/kg	10	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	1	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	
41319-EX 20B (W410007-12) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	2200	100	mg/kg	10	WJ42001	19-Oct-04	19-Oct-04	EPA 418.1	
Gasoline (C5-C11)	ND	10	"	1	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	110	10	"	"	"	"	"	"	D-02

Navy PWC
 2730 McKean Str , Suite I
 San Diego CA , 92136-5294

Project: NP101904-W1
 Project Number: 11361702008; Tank 41319
 Project Manager: Mr Craig Haverstick

Reported:
 26-Oct-04

Soil Analyses

H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX 20S (W410007-13) Soil Sampled: 19-Oct-04 Received: 19-Oct-04									
TRPH	12	10	mg/kg	1	WJ42001	19-Oct-04	19-Oct-04	EPA 418 I	
Gasoline (C5-C11)	ND	10	"	"	"	"	19-Oct-04	DHS LUFT	
Diesel (C12-C24)	ND	10	"	"	"	"	"	"	

Navy PWC
2730 McKean Str., Suite 1
San Diego CA, 92136-5294

Project: NP101904-W1
Project Number: 11361702008; Tank 41319
Project Manager: Mr Craig Haverstick

Reported:
26-Oct-04

Soil Analyses - Quality Control
H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch WJ42001 - Freon Extraction

Blank (WJ42001-BLK1)

Prepared & Analyzed: 19-Oct-04

Gasoline (C5-C11)	ND	10	mg/kg							
Diesel (C12-C24)	ND	10	"							

Blank (WJ42001-BLK2)

Prepared & Analyzed: 19-Oct-04

TRPH	ND	10	mg/kg							
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LCS (WJ42001-BS1)

Prepared & Analyzed: 19-Oct-04

Gasoline (C5-C11)	240	10	mg/kg	200		120	67-125			
Diesel (C12-C24)	540	10	"	500		108	67-125			

LCS (WJ42001-BS2)

Prepared & Analyzed: 19-Oct-04

TRPH	487	10	mg/kg	500		97.4	75-125			
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LCS Dup (WJ42001-BSD1)

Prepared & Analyzed: 19-Oct-04

Gasoline (C5-C11)	200	10	mg/kg	200		100	67-125	18.2	30	
Diesel (C12-C24)	480	10	"	500		96.0	67-125	11.8	30	

LCS Dup (WJ42001-BSD2)

Prepared & Analyzed: 19-Oct-04

TRPH	494	10	mg/kg	500		98.8	75-125	1.43	30	
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Matrix Spike (WJ42001-MS1)

Source: W410007-03

Prepared & Analyzed: 19-Oct-04

Gasoline (C5-C11)	210	10	mg/kg	200	ND	105	67-125			
Diesel (C12-C24)	460	10	"	500	ND	92.0	67-125			

Matrix Spike (WJ42001-MS2)

Source: W410007-03

Prepared & Analyzed: 19-Oct-04

TRPH	485	10	mg/kg	500	ND	97.0	75-125			
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Matrix Spike Dup (WJ42001-MSD1)

Source: W410007-03

Prepared & Analyzed: 19-Oct-04

Gasoline (C5-C11)	190	10	mg/kg	200	ND	95.0	67-125	10.0	30	
Diesel (C12-C24)	470	10	"	500	ND	94.0	67-125	2.15	30	



Navy PWC
2730 McKean Str , Suite I
San Diego CA , 92136-5294

Project: NP101904-WI
Project Number: 11361702008; Tank 41319
Project Manager: Mr Craig Haverstick

Reported:
26-Oct-04

Soil Analyses - Quality Control
H&P Mobile Geochemistry Lab W1

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch WJ42001 - Freon Extraction

Matrix Spike Dup (WJ42001-MSD2)

Source: W410007-03

Prepared & Analyzed: 19-Oct-04

TRPH	503	10	mg/kg	500	ND	101	75-125	3 64	30	
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Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP101904-W1
Project Number: 11361702008; Tank 41319
Project Manager: Mr. Craig Haverstick

Reported:
26-Oct-04

Notes and Definitions

D-02 Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel

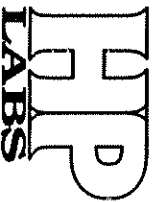
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Receipt

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 10-19-04
HPL Project # AP 1019 D4 W1
Outside Lab: _____

LABS

Client: Navy Public Works Collector: C. Haverstick Page: 1
Address: 2730 McKean St #1 Client Project # 4136172008 Project Manager C. Haverstick
Phone: 619-571-4250 Fax: 619-524-6000 Location: Tank # 41319 Cp Pendleton Area
Turn around time: _____

Notes:

Sample	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	4181 TRPH	BTEX / Oxygenates	Oxygenates	VOCs	VOCs and Oxygenates	Methane	Fixed Gases	Sample Receipt	
1-41319-EX-25		1100	10/19	Soil	JAR	X				X								Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Cold: <input type="checkbox"/> Yes <input type="checkbox"/> No N/A (Received on Site) Field Notes: _____ Total # of containers: _____
2-41319-EX-108		1000																
3-41319-EX-108		1000																
4-41319-EX-28		1100																
5-41319-EX-25		1100																
6-41319-EX-48		1145																
7-41319-EX-45		1145																
8-41319-EX-78		1230																
9-41319-EX-18-15		1300																
10-41319-EX-185		1300																
11-41319-EX-188		1300																
12-41319-EX-208		1315																
13-41319-EX-208		1315																
14-41319-																		

Relinquished by: (Signature) Craig Haverstick (company) Craig Haverstick Received by: (Signature) C. Haverstick (company) C. Haverstick Date: 10-19-04 Time: _____
Relinquished by: (Signature) _____ (company) _____ Received by: (Signature) _____ (company) _____ Date: _____ Time: _____
Relinquished by: (Signature) _____ (company) _____ Received by: (Signature) _____ (company) _____ Date: _____ Time: _____
Signature constitutes authorization to proceed with analysis and acceptance of condition on back. Sample disposal fee: _____ Disposal @ \$2.00 each Return to client Pickup



Nov-2004

Mr. Len Sinfield
Navy PWC
2730 McKean Str., Suite 1
San Diego, CA. 92136-5294
RE: NP110104-L3

Enclosed are the results of analyses for samples received by the laboratory on 01-Nov-04 . If you have any questions concerning this report, please feel free to contact me.

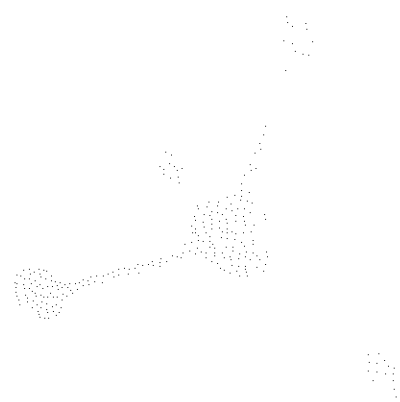
Sincerely,

A handwritten signature in cursive script that reads "Rebecca Johnson".

Rebecca Johnson
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 1839, 2088, 2278, 2530 and 2543.

132 North Cedros Avenue, Solana Beach, California 92075 | 858 793 0401 — Fax 858 793 0404
148 South Vinewood Street, Escondido, California 92029 | 760 735 3208 — Fax 760 735 2469
3825 Industry Avenue, Lakewood, California 90712 | 562 426 6991 — Fax 562 426 6995
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Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr Len Sinfield

Reported:
08-Nov-04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
41319-EX01	3411001-01	Soil	01-Nov-04	01-Nov-04
41319-EX03	3411001-02	Soil	01-Nov-04	01-Nov-04
41319-EX05	3411001-03	Soil	01-Nov-04	01-Nov-04
41319-EX06	3411001-04	Soil	01-Nov-04	01-Nov-04
41319-EX09	3411001-05	Soil	01-Nov-04	01-Nov-04
41319-EX11	3411001-06	Soil	01-Nov-04	01-Nov-04
41319-EX12	3411001-07	Soil	01-Nov-04	01-Nov-04
41319-EX13	3411001-08	Soil	01-Nov-04	01-Nov-04
9-EX14	3411001-09	Soil	01-Nov-04	01-Nov-04
19-EX15	3411001-10	Soil	01-Nov-04	01-Nov-04
41319-EX16	3411001-11	Soil	01-Nov-04	01-Nov-04
41319-EX17	3411001-12	Soil	01-Nov-04	01-Nov-04
41319-EX21	3411001-13	Soil	01-Nov-04	01-Nov-04
41319-EX23	3411001-14	Soil	01-Nov-04	01-Nov-04
41319-EX19	3411001-15	Soil	01-Nov-04	01-Nov-04
41319-EX22	3411001-16	Soil	01-Nov-04	01-Nov-04



Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr Len Sinfield

Reported:
08-Nov-04

TPH by GC FID

H&P Mobile Geochemistry Lab L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX01 (3411001-01) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX03 (3411001-02) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	16	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	D-06
Motor Oil (C25-C36)	250	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX05 (3411001-03) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX06 (3411001-04) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX09 (3411001-05) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	54	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	D-06
Motor Oil (C25-C36)	380	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX11 (3411001-06) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	210	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	D-06
Motor Oil (C25-C36)	4900	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	



Navy PWC
2730 McKean Str., Suite 1
San Diego CA., 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr. Len Sinfield

Reported:
08-Nov-04

TPH by GC FID

H&P Mobile Geochemistry Lab L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX12 (3411001-07) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX13 (3411001-08) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX14 (3411001-09) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX15 (3411001-10) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX16 (3411001-11) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	
41319-EX17 (3411001-12) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	01-Nov-04	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	01-Nov-04	"	"	



Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr Len Sinfield

Reported:
08-Nov-04

TPH by GC FID

H&P Mobile Geochemistry Lab L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
41319-EX21 (3411001-13) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	"	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	"	"	"	
41319-EX23 (3411001-14) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	"	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	"	"	"	
41319-EX19 (3411001-15) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	"	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	"	"	"	
41319-EX22 (3411001-16) Soil Sampled: 01-Nov-04 Received: 01-Nov-04									
Diesel (C12-C24)	ND	10	mg/kg	1	3K40101	01-Nov-04	03-Nov-04	DHS LUFT/8015M	
Motor Oil (C25-C36)	ND	10	"	"	"	"	"	"	
Gasoline (C5-C11)	ND	10	"	"	"	"	"	"	



Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr Len Sinfield

Reported:
08-Nov-04

TPH by GC FID - Quality Control
H&P Mobile Geochemistry Lab L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3K40101 - LUFT-DHS

Blank (3K40101-BLK1)

Prepared: 01-Nov-04 Analyzed: 03-Nov-04

Diesel (C12-C24)	ND	10	mg/kg							
Gasoline (C5-C11)	ND	10	"							
Motor Oil (C25-C36)	ND	10	"							

LCS (3K40101-BS1)

Prepared: 01-Nov-04 Analyzed: 03-Nov-04

Diesel (C12-C24)	237	10	mg/kg	251		94.4	67-125			
Gasoline (C5-C11)	133	10	"	151		88.1	67-125			

LCS Dup (3K40101-BSD1)

Prepared: 01-Nov-04 Analyzed: 03-Nov-04

Diesel (C12-C24)	262	10	mg/kg	251		104	67-125	10.0	30	
Gasoline (C5-C11)	153	10	"	151		101	67-125	14.0	30	

Matrix Spike (3K40101-MS1)

Source: 3411001-01

Prepared: 01-Nov-04 Analyzed: 03-Nov-04

Diesel (C12-C24)	231	10	mg/kg	251	ND	92.0	67-125			
Gasoline (C5-C11)	126	10	"	151	ND	83.4	67-125			

Matrix Spike Dup (3K40101-MSD1)

Source: 3411001-01

Prepared: 01-Nov-04 Analyzed: 03-Nov-04

Diesel (C12-C24)	225	10	mg/kg	251	ND	89.6	67-125	2.63	30	
Gasoline (C5-C11)	161	10	"	151	ND	107	67-125	24.4	30	



Navy PWC
2730 McKean Str , Suite 1
San Diego CA , 92136-5294

Project: NP110104-L3
Project Number: 11361702008/Tank 41319
Project Manager: Mr. Len Sinfield

Reported:
08-Nov-04

Notes and Definitions

D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record

Date: 11/1/04

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.7...J8 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

H&P Project # NP1100-3

Outside Lab:

Client: Navy Pure

Collector: Craig Hoyerstick

Page: 7 of 7

Address:

Client Project # 4361702008/P004319 Project Manager Len Sinfeld

Location: Camp Pendleton Area 41

Phone:

Fax:

Turn around time:

Global ID: T0607301667

EDF: Yes / No

Sample Receipt

...

Global ID: T0607301667 7										EDF: Yes / No		Sample Receipt		TPH gasoline / diesel		TPH extended		8021 for BTEX/MTBE		8021 for Halogenated compounds		418.1 TRPH		BTEX / Oxygenates		Oxygenates		VOCs		VOCs and Oxygenates		Methane		Fixed Gases		Total # of containers			
Sample Name		Field Point Name		Depth		Time		Date		Sample Type		Container Type		Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Cold: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (Received on Site)		TPH gasoline / diesel		TPH extended		8021 for BTEX/MTBE		8021 for Halogenated compounds		418.1 TRPH		BTEX / Oxygenates		Oxygenates		VOCs		VOCs and Oxygenates		Methane		Fixed Gases		Total # of containers	
41319-Ex01						0845		11/01		Soil		402		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex03						0845								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex05						0845								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex06						0845								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex09						0930								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex11						1010								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex12						1010								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
-Ex13						1015								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex14						1015								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex15						1200								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex16						1200								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex17						1200								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex21						1245								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Ex23						1245								<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																			
Relinquished by: (Signature)		Craig Hamrick		PWC SD		(company)		Received by: (Signature)		Jamaal Davis		(company)		Received by: (Signature)		H7Pmg		(company)		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600					
Relinquished by: (Signature)		Craig Hamrick		PWC SD		(company)		Received by: (Signature)		Jamaal Davis		(company)		Received by: (Signature)		H7Pmg		(company)		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600					
Relinquished by: (Signature)		Craig Hamrick		PWC SD		(company)		Received by: (Signature)		Jamaal Davis		(company)		Received by: (Signature)		H7Pmg		(company)		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600		Date: 11/1/04		Time: 1600					

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction:

☐ Disposal @ \$2.00 each

[Return to client](#)

Order	Item	Quantity	Unit Price	Total Price
1	Pickup	1	100.00	100.00

Chain of Custody Record

□ □ □

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- ☐ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.73.
- ☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.
- ☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.

• fax 760.735.2469
• fax 858.793.0404
• fax 310.782.2799

Date: 11/10/04

• fax 760.735.2469
• fax 858.793.0404
• fax 310.782.2799

Outside Lab:

Client:

NavyPwC

Collector.

Crayon

Q

10

Address:

Client Project # 13670228 / kmL4139
Project Manager
Len Sun, Esq.

Location: Camp Pendleton Area 4

Phone:

Turn around time:

XBT

[illegible]

Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction:

	Disposal @ \$2.00 each
--	------------------------

Return to client

Pickup

Navy Regional Environmental Laboratory

Public Works Center C-910
Naval Air Station North Island Bldg M-9
San Diego, CA 92135
Tel: (619) 545-8431 Fax: (619) 545-0793
NELAP CERT NO : 01124CA

Thursday, November 18, 2004

Client: Karen Collins

ATTN: Craig Haverstick

Sample Data Package


Lab Batch Number: 42318 & 42397
Samples Received On: 10/20 & 11/2/2004
Client Project Name/Number: UST 41319 / Project 199-0104

This sample data package includes the test results, associated QA/QC documents, Chain of Custody forms, and other relevant documentation for your samples. This page of the report is an integral part of this data package. All results are reported on a wet weight basis unless otherwise noted.

All analysis reported in this sample data package were analyzed by the subcontract laboratory Calscience Environmental Lab, CA ELAP number 1230.

We appreciate the opportunity to provide quality environmental testing services and look forward to meeting your needs in the future.

I certify that the test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC) and/or the above accrediting agencies.



Joe Arlauskas, Laboratory Director
Allen Hollander, Project Manager

Navy Public Works Center
Environmental Chemistry Laboratory, Code 910
Naval Air Station North Island Bldg M-9
San Diego, CA 92135
Tel: (619) 545-8431 Fax: (619) 545-0793

Date of Report: 11/18/04

Sample Summary		
Lab Number	Sample ID	Date Sample Collected
42318-01	B4S-1	10/18/2004
42397-01	NAV-EX21	11/1/2004

SAMPLE CONDITION UPON RECEIPT (SCUR) FORM

ACTIVITY: PWC Code 980 PWC8DG#: 42318
 SAMPLES RECEIVED IN: COOLER(S) ☒ BOX(ES): _____ OTHER: _____
 DELIVERED BY: C. Haverstick
 NUMBER OF COOLERS/BOXES/OTHER: 1 LOG-IN DATE/TIME: 10-20-04 9:20
 LOGGED IN BY: Allen Hollander SIGNATURE: [Signature]

SECTION A: Are there any discrepancies? (If yes, please complete the entire form. If no, the Sample Custodian (SC) or designee ensures that the remainder of the questions are answered in the affirmative or are non-applicable.)		Yes	No
SECTION B: Questions 1-9			
1. Are custody seals on shipping containers intact?	NA	Yes	No
2. Were Chain of Custody (COC) forms filled out completely and properly by the customer?		Yes	No
3. Were all sample containers received intact (not broken or leaking, etc)?		Yes	No
4. Were correct containers used for the analysis requested?		Yes	No
5. Were appropriate samples correctly preserved?	NA	Yes	No
6. Were sufficient sample amounts sent for each analysis requested?		Yes	No
7. Were air bubbles absent from VOA sample(s)?	NA	Yes	No
8. Are all samples within holding times for the requested analyses?		Yes	No
9. Were samples sufficiently chilled? If included, report temperature of temperature blank ____ °C Cooler temperature(s) #1 ____ #2 ____ #3 ____ #4 ____ #5 ____	NA	Yes	No

A NO RESPONSE TO ANY QUESTION REQUIRES AN EXPLANATION BELOW.

Describe discrepancy (include question#):

Was the client contacted? ___ Yes ___ No

Was the pH of any sample adjusted by the laboratory? ___ Yes ___ No If yes, please note the following:

Date _____ Time _____ SC _____ Test/Preservative _____
 Date _____ Time _____ SC _____ Test/Preservative _____

AFTER pH ADJUSTMENT OF DRINKING WATER METALS, HOLD METALS SAMPLES FOR ≥16 HRS AND THEN VERIFIED & DOCUMENTED BY THE ANALYST TO BE pH <2 BEFORE ANALYSIS.

LABORATORY CHAIN-OF-CUSTODY

USE ONLY: ☒ HAZWASTE/GROUNDWATER/LUFT (RCRA) ☐ DRINKING WATER (SDWA) ☐ DISCHARGE (NPDES/CWA) ☐ ABATEMENT (HUD) ☐ OTHER

PROJECT NAME: UST 41319 PROJECT # 113623502002

CUSTOMER DUE DATE: 2-6-04 FAX: 41319

JOB ORDER #: 113623502002

SAMPLED BY (PRINT): Craig Haverstick

RESULTS DELIVERY: ☒ FAXED ☐ PICKED UP ☐ GUARD MAIL ☐ Other

PHONE: 619-545-8431 FAX: 619-545-0793

NAVY Regional Environmental Laboratory
1000 Naval Air Station North Island, BLDG-M9
San Diego, CA 92135

CONTACT: <u>Carla Claverstick</u>		PHONE: <u>204-571-4178</u>	
ALT. CONTACT: <u>Karen Collins</u>		PHONE: _____	
ACTIVITY: <u>PWC Code 980</u>		FAX: <u>4-6000</u>	
ADDRESS: <u>2730 McKen ST</u>		_____	
E-MAIL: _____		_____	

LAB LOG NUMBER	SAMPLE IDENTIFICATION*	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	ANALYSIS REQUESTED																PRESERVATION CODE/BOTTLE CODE		NUMBER OF CONTAINERS/SAMPLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
67397-01	NAV-EX21	11/1/04	1250	SOIL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY: Craig Haverstick RECEIVED BY: Robert A. Carr DATE: 11/2/04 TIME: 0800

RELINQUISHED BY: Robert A. Carr RECEIVED BY: Craig Haverstick DATE: 11/2/04 TIME: 0900

RELINQUISHED BY: Robert A. Carr RECEIVED BY: Craig Haverstick DATE: 11/2/04 TIME: 0900

COMMENTS: 1 = Nitric Acid (HNO3) 2 = Hydrochloric Acid (HCl) 3 = Sulfuric Acid (H2SO4) 4 = Sodium Hydroxide (NaOH) 5 = Zinc Acetate (Zn(CH3COO)2) 6 = Sodium Thiosulfate (Na2S2O3) 7 = Ascorbic Acid (C6H8O6) 8 = Sodium Bisulfate (NaHSO4) 9 = Monochloroacetic acid (C2H3O2Cl) NA = Not applicable 10 = Other

SAMPLE CONDITION UPON RECEIPT (SCUR) FORM

ACTIVITY: C980 PWCSDG#: 47397
 SAMPLES RECEIVED IN: COOLER(S) ☒ BOX(ES): _____ OTHER: _____
 DELIVERED BY: A. Cruz
 NUMBER OF COOLERS/BOXES/OTHER: 1 LOG-IN DATE/TIME: 11/2/09 9:00
 LOGGED IN BY: A. Holland SIGNATURE: [Signature]

SECTION A: Are there any discrepancies? (If yes, please complete the entire form. If no, the Sample Custodian (SC) or designee ensures that the remainder of the questions are answered in the affirmative or are non-applicable.)		Yes	No
SECTION B: Questions 1-9			
1. Are custody seals on shipping containers intact?	NA	Yes	No
2. Were Chain of Custody (COC) forms filled out completely and properly by the customer?		Yes	No
3. Were all sample containers received intact (not broken or leaking, etc.)?		Yes	No
4. Were correct containers used for the analysis requested?		Yes	No
5. Were appropriate samples correctly preserved?	NA	Yes	No
6. Were sufficient sample amounts sent for each analysis requested?		Yes	No
7. Were air bubbles absent from VOA sample(s)?	NA	Yes	No
Are all samples within holding times for the requested analyses?		Yes	No
9. Were samples sufficiently chilled? If included, report temperature of temperature blank ____ °C Cooler temperature(s) #1 #2 #3 #4 #5	NA	Yes	No

A NO RESPONSE TO ANY QUESTION REQUIRES AN EXPLANATION BELOW.

Describe discrepancy (include question#):

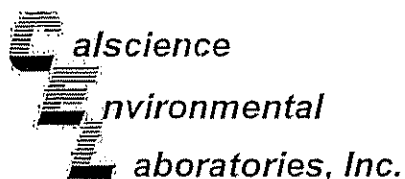
Was the client contacted? ___ Yes ___ No

Was the pH of any sample adjusted by the laboratory? ___ Yes ___ No If yes, please note the following:

: _____ Time _____ SC _____ Test/Preservative _____

Date _____ Time _____ SC _____ Test/Preservative _____

AFTER pH ADJUSTMENT OF DRINKING WATER METALS, HOLD METALS SAMPLES FOR ≥16 HRS AND THEN VERIFIED & DOCUMENTED BY THE ANALYST TO BE pH <2 BEFORE ANALYSIS.



November 04, 2004

Lyn Vasquez
Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Subject: Calscience Work Order No.: 04-10-1309
Client Reference: CEL-0994&CEL-0997 / Lab #42318 / Proj
#199-01

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/21/2004 and analyzed in accordance with the attached chain-of-custody.

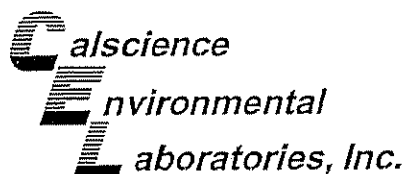
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, enclosed in an oval. The signature appears to read "Virendra Patel".

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager



Case Narrative for 04-10-1309

Sample Condition on Receipt

One soil sample was received as part of this Work Order on October 21, 2004. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (4.1°C) of the sample was measured upon arrival in the laboratory and was within acceptable limits. The sample was logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. Data is presented on a dry weight basis.

Holding Times

All holding time requirements were met with the exception of DHS LUFT Gasoline, EPA 5035 analysis. The sample was received outside the recommended holding time for this method. Therefore, the data have been flagged accordingly and released without further action or clarification.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

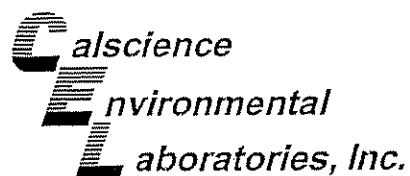
Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits with the exception of DHS LUFT Gasoline in batch 041025S01. The affected recoveries have been flagged with a "3" qualifier. As a direct result of the unacceptable recoveries for the MS and/or MSD, the relative percent difference was also

A handwritten signature in black ink, appearing to be 'M. J. ...'.



Case Narrative for 04-10-1309

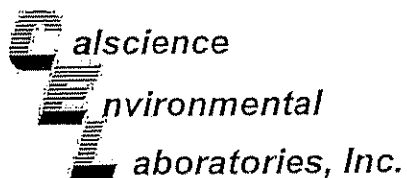
outside acceptable limits. These recoveries have been flagged with a "4" qualifier.

Note that the corresponding Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.





Analytical Report



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: N/A
Method: ASTM D-2216

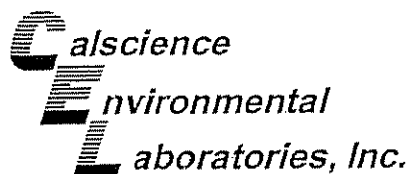
Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42318-01 B4S-1	04-10-1309-1	10/18/04	Solid	N/A	10/26/04	41026M01D1

Parameter	Result	RL	MDL	DF	Qual	Units
Moisture	10.6	0.1	0.100	1		%

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No.: 04-10-1309
Preparation: EPA 3550B
Method: DHS LUFT

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Page 1 of 1

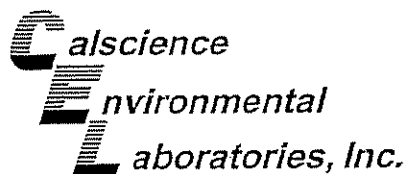
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42318-01 B4S-1	04-10-1309-1	10/18/04	Solid	10/22/04	10/22/04	041022B04

Comment(s): -Results are reported on a dry weight basis

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	130	11.2	5.4	1.12		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	89	62-152				

Method Blank	098-03-002-3,816	N/A	Solid	10/22/04	10/22/04	041022B04
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Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	10	4.8	1		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	76	62-152				



ANALYTICAL REPORT



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No.: 04-10-1309
Preparation: EPA 5035
Method: DHS LUFT

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42318-01 BAS-1	04-10-1309-1	10/18/04	Solid	10/22/04	10/25/04	041025B01

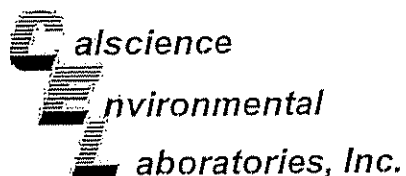
Comment(s):
- Results are reported on a dry weight basis.
- Sample received after recommended holding time

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	9.61	0.059	0.961		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	97	70-130				

Method Blank	099-12-009-3,408	N/A	Solid	10/25/04	10/25/04	041025B01
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Parameter	Result	RL	MDL	DF	Qual	Units
PH as Gasoline	ND	10	0.061	1		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	84	70-130				

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: Extraction
Method: EPA 418.1M

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42318-01 B4S-1	04-10-1309-1	10/18/04	Solid	10/22/04	10/22/04	041022L03

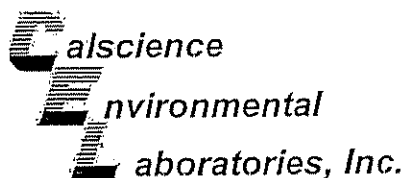
Comment(s): -Results are reported on a dry weight basis.

Parameter	Result	RL	MDL	DF	Qual	Units
TRPH	28	11	4.5	1.124		mg/kg

Method Blank	099-07-015-726	N/A	Solid	10/22/04	10/22/04	041022L03
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Parameter	Result	RL	MDL	DF	Qual	Units
TRPH	ND	10	4.0	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Duplicate



Navy Public Works Center
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San Diego, CA 92136-5294

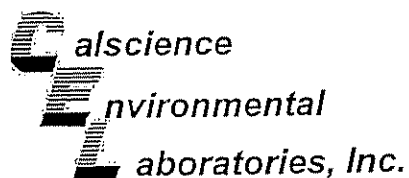
Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: N/A
Method: ASTM D-2216

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
42318-01-B4S-1	Solid	N/A	N/A	10/26/04	41026M01D1

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Moisture	10.6	10.6	0	0-25	

RPD - Relative Percent Difference CL - Control Limit



Quality Control - Spike/Spike Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: EPA 3550B
Method: DHS LUFT

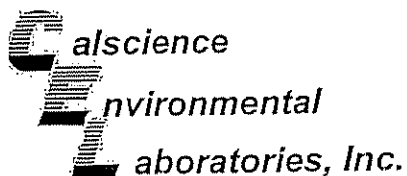
Project CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Balch Number
42318-01 B4S-1	Solid	GC 23	10/22/04	10/22/04	041022S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	93	94	71-125	0	0-12	

RPD - Relative Percent Difference . CL - Control Limit

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Quality Control - Spike/Spike Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: EPA 5035
Method: DHS LUFT

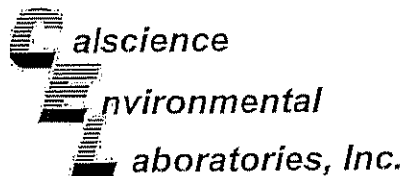
Project CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
42318-01 B4S-1	Solid	GC-22	N/A	10/25/04	041025S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	58	37	70-130	36	0-25	3.4

RPD - Relative Percent Difference CL - Control Limit

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Quality Control - Spike/Spike Duplicate



Navy Public Works Center
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San Diego, CA 92136-5294

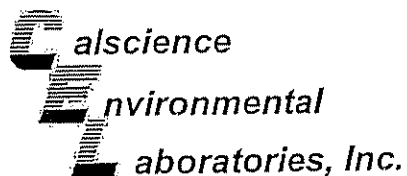
Date Received: 10/21/04
Work Order No: 04-10-1309
Preparation: Extraction
Method: EPA 418.1M

Project CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
42318-01 BAS-1	Solid	IR #1	10/22/04	10/22/04	041022S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TRPH	98	98	55-135	1	0-30	

RPD - Relative Percent Difference . CL - Control Limit



Quality Control - LCS/LCS Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: N/A
Work Order No: 04-10-1309
Preparation: EPA 5035
Method: DHS LUFT

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-009-3,408	Solid	GC 22	10/25/04	10/25/04	041025B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	108	110	70-130	2	0-25	

RPD - Relative Percent Difference

CL - Control Limit



**Environmental
Laboratories, Inc.**

Quality Control - Laboratory Control Sample



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: N/A
Work Order No: 04-10-1309
Preparation: Extraction
Method: EPA 418.1M

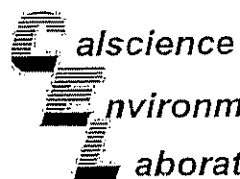
Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-07-015-726	Solid	IR #1	10/22/04	NONE	041022L03

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TRPH	100	100	104	70-130	

RPD - Relative Percent Difference . CL - Control Limit

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Calscience
Environmental Laboratories, Inc.



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 San Diego, CA 92136-5294

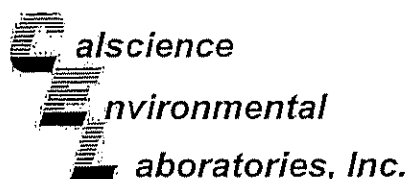
Date Received: N/A
 Work Order No: 04-10-1309
 Preparation: EPA 3550B
 Method: DHS LUFT

Project: CEL-0994&CEL-0997 / Lab #42318 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
098-03-002-3,816	Solid	GC 23	10/22/04	004F0101	041022B04

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Diesel	400	380	96	71-119	

RPD - Relative Percent Difference CL - Control Limit



November 09, 2004

Lyn Vasquez
Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Subject: **Calscience Work Order No.: 04-11-0137**
Client Reference: **CEL-1007 / Lab #42397 / Proj #199-01**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/02/2004 and analyzed in accordance with the attached chain-of-custody.

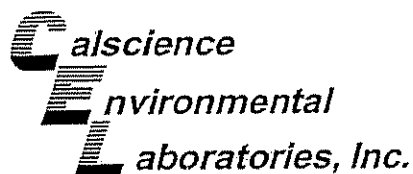
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature of Virendra K. Patel, enclosed in an oval.

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager



Case Narrative for 04-11-0137

Sample Condition on Receipt

One soil sample was received as part of this Work Order on November 02, 2004. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (2.2°C) of the sample was measured upon arrival in the laboratory and was within acceptable limits. The sample was logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of custody. Data is presented on a dry weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

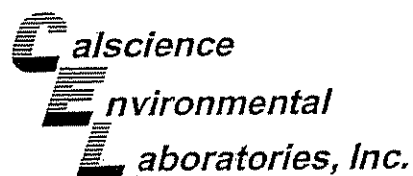
Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits with the exception of DHS LUFT Gasoline in batch 041105S01. The affected recoveries have been flagged with a "3" qualifier.



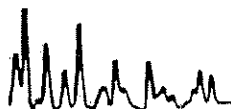


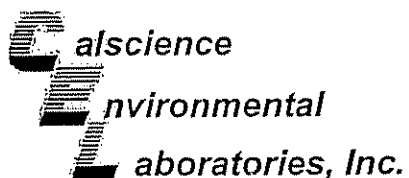
Case Narrative for 04-11-0137

Note that the corresponding Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.





Analytical Report



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: N/A
Method: ASTM D-2216

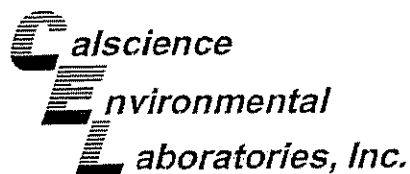
Project: CEL-1007 / Lab #42397 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42397-01 NAVJEX21	04-11-0137-1	11/01/04	Solid	N/A	11/05/04	41105MOD1

Parameter	Result	RL	MDL	DF	Qual	Units
Moisture	15.1	0.1	0.100	1		%

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



ANALYTICAL REPORT



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/2004
Work Order No.: 04-11-0137
Preparation: EPA 3550B
Method: DHS LUFT

Project: CEL-1007 / Lab #42397 / Proj #199-01

Page 1 of 1

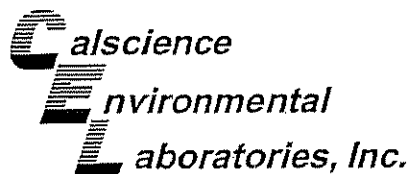
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42397-01 NAV-EX21	04-11-0137-1	11/01/04	Solid	11/02/04	11/03/04	041102B05

Comment(s): -Results are reported on a dry weight basis

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	11.8	5.7	1.18		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	119	62-152				

Method Blank	098-03-002-3,837	N/A	Solid	11/02/04	11/02/04	041102B05
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Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	10	4.8	1		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
Decachlorobiphenyl	135	62-152				



ANALYTICAL REPORT



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No.: 04-11-0137
Preparation: EPA 5035
Method: DHS LUFT

Project: CEL-1007 / Lab #42397 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42397-01 NAV-EX21	04-11-0137-1	11/01/04	Solid	11/03/04	11/05/04	041105B01

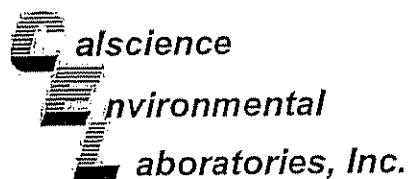
Comment(s): -Results are reported on a dry weight basis

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	0.29	10.5	0.064	1.05	J	mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	105	70-130				

Method Blank	099-12-009-3,446	N/A	Solid	11/05/04	11/05/04	041105B01
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Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	10	0.061	1		mg/kg
Surrogates:	REC (%)	Control Limits			Qual	
1,4-Bromofluorobenzene	78	70-130				

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: Extraction
Method: EPA 418.1M

Project: CEL-1007 / Lab #42397 / Proj #199-01

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
42397-01 NAV-EX21	04-11-0137-1	11/01/04	Solid	11/03/04	11/03/04	041103L04

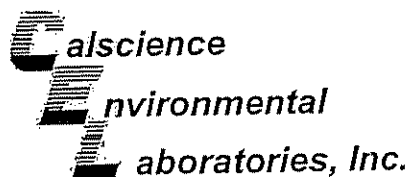
Comment(s): -Results are reported on a dry weight basis

Parameter	Result	RL	MDL	DF	Qual	Units
TRPH	9.2	12.0	4.8	1.178	J	mg/kg

Method Blank	099-07-015-729	N/A	Solid	11/03/04	11/03/04	041103L04
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Parameter	Result	RL	MDL	DF	Qual	Units
TRPH	ND	10	4.0	1		mg/kg

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Quality Control - Duplicate



Navy Public Works Center
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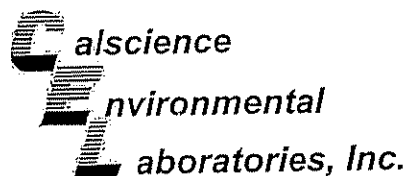
Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: N/A
Method: ASTM D-2216

Project: CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
42397-01 NAV-EX21	Solid	N/A	N/A	11/05/04	41105MOID1

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Moisture	15.1	13.7	10	0-25	

RPD - Relative Percent Difference CL - Control Limit



Quality Control - Spike/Spike Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: EPA 3550B
Method: DHS LUFT

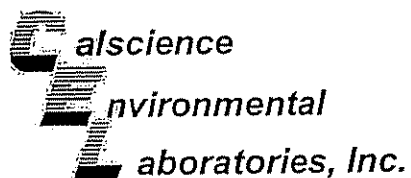
Project CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
42397-01 NAV-EX21	Solid	GC-23	11/02/04	11/02/04	041102S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	115	123	71-125	7	0-12	

RPD - Relative Percent Difference CL - Control Limit

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Quality Control - Spike/Spike Duplicate



Navy Public Works Center
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San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: EPA 5035
Method: DHS LUFT

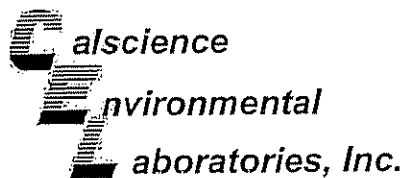
Project CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
42397-01 NAV-EX21	Solid	GC.22	N/A	11/05/04	041105S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	62	46	70-130	23	0-25	3

RPD - Relative Percent Difference . CL - Control Limit

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Quality Control - Spike/Spike Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: 11/02/04
Work Order No: 04-11-0137
Preparation: Extraction
Method: EPA 418.1M

Project CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
42397-01 NAV-EX21	Solid	IR #1	11/03/04	11/03/04	041103S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TRPH	105	105	55-135	0	0-30	

RPD - Relative Percent Difference . CL - Control Limit

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Quality Control - Laboratory Control Sample



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: N/A
Work Order No: 04-11-0137
Preparation: EPA 3550B
Method: DHS LUFT

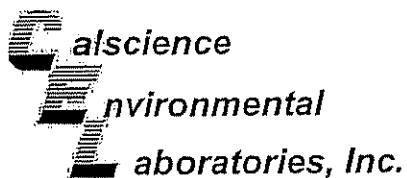
Project: CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
098-03-002-3837	Solid	GC-23	11/02/04	047F0101	041102B05

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Diesel	400	420	105	71-119	

RPD - Relative Percent Difference . CL - Control Limit

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Quality Control - LCS/LCS Duplicate



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: N/A
Work Order No: 04-11-0137
Preparation: EPA 5035
Method: DHS LUFT

Project: CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-009-3-446	Solid	GC 22	11/05/04	11/05/04	041105B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	108	108	70-130	0	0-25	

RPD - Relative Percent Difference . CL - Control Limit



**Environmental
Laboratories, Inc.**

Quality Control - Laboratory Control Sample



Navy Public Works Center
2730 McKean Street, Suite 1
San Diego, CA 92136-5294

Date Received: N/A
Work Order No: 04-11-0137
Preparation: Extraction
Method: EPA 418.1M

Project: CEL-1007 / Lab #42397 / Proj #199-01

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-07-015-729	Solid	IR #1	11/03/04	NONE	041103104

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TRPH	100	100	103	70-130	

RPD - Relative Percent Difference CL - Control Limit

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APPENDIX E

APPENDIX F

Disposable EnCore® Sampler

EXTRUSION PROCEDURES

USING THE EnCore® EXTRUSION TOOL

CAUTION! Always use the Extrusion Tool to extrude soil from the En Core Sampler. If the Extrusion Tool is not used, the Sampler may fragment, causing injury.

1. Use a pliers to break locking arms on cap of En Core Sampler. Do not remove cap at this time. (CAUTION: Broken edges will be sharp.)
2. To attach En Core Sampler to En Core Extrusion Tool: Depress locking lever on Extrusion Tool and place Sampler, plunger end first, into open end of Extrusion Tool, aligning slots on coring body with pins in Extrusion Tool. Turn coring body clockwise until it locks into place. Release locking lever.
3. Rotate and gently push Extrusion Tool plunger knob clockwise until plunger slides over wings of coring body. (When properly positioned plunger will not rotate further.)
4. Hold Extrusion Tool with capped Sampler pointed upward so soil does not fall out when cap is removed. To release soil core, remove cap from Sampler and push down on plunger knob of En Core Extrusion Tool. Remove and properly dispose of En Core Sampler.

Warranty and Disclaimers

IMPORTANT: FAILURE TO USE THE EN CORE® SAMPLER IN COMPLIANCE WITH WRITTEN INSTRUCTIONS PROVIDED HEREIN VOIDS ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

PRINCIPLE OF USE. The En Core Sampler Cartridge System is a volumetric sampling system designed to collect, store and deliver a soil sample. The En Core Sampler comes in two sizes for sample volumes of approximately 25 or 5 grams. There are four components: the cartridge with a movable plunger; a cap with two locking arms; a T-handle (purchased separately); and an extrusion handle (purchased separately). NOTE: The En Core Sampler is designed to store soil. It is not designed to store solvent or free product.

The soil is stored in a sealed headspace-free state. The seals are achieved by three special Viton® * o-rings, two located on the plunger and one on the cap of the Sampler. At no time and under no condition should these o-rings be removed or disturbed.

QUALITY CONTROL. The cartridge is sealed in an airtight package to prevent contamination prior to use. Due to the stringent quality control requirements associated with the use of this system, the disposable cartridge is designed to be used only once.

WARRANTY. En Novative Technologies, Inc. ("En Novative Technologies") warrants that the En Core Sampler shall perform consistent with the research conducted under En Novative Technologies' approval, within thirty (30) days from the date of delivery, provided that the Customer gives En Novative Technologies prompt notice of any defect or failure to perform and satisfactory proof thereof. THIS WARRANTY DOES NOT APPLY TO THE FOLLOWING, AS SOLELY DETERMINED BY EN NOVATIVE TECHNOLOGIES: (a) Damage caused by accident, abuse, mishandling or dropping; (b) Samplers that have been opened, taken apart or mishandled; (c) Samplers not used in accordance with the directions; and (d) Damages exceeding the cost of the sampler. Seller warrants that all En Core Samplers shall be free from defects in title. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY INFORMATION PROVIDED BY SALES REPRESENTATIVES OR IN MARKETING LITERATURE. IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY SHALL NOT APPLY. En Novative Technologies' warranty obligations and Customer's remedies, except as to title, are solely and exclusively as stated herein.

LIMITATION OF LIABILITY. IN NO EVENT SHALL EN NOVATIVE TECHNOLOGIES

BE LIABLE FOR ANTICIPATED PROFITS, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF REVENUE, DOWN TIME, REMEDIATION ACTIVITIES, REMOBILIZATION OR RESAMPLING, COST OF CAPITAL, SERVICE INTERRUPTION OR FAILURE OF SUPPLY, LIABILITY OF CUSTOMER TO A THIRD PARTY, OR FOR LABOR, OVERHEAD, TRANSPORTATION, SUBSTITUTE SUPPLY SOURCES OR ANY OTHER EXPENSE, DAMAGE OR LOSS, INCLUDING PERSONAL INJURY OR PROPERTY DAMAGE. En Novative Technologies' liability on any claim of any kind shall be replacement of the En Core Sampler or refund of the purchase price. En Novative Technologies shall not be liable for penalties of any description whatsoever. In the event the En Core Sampler will be utilized by Customer on behalf of a third party, such third party shall not occupy the position of a third-party beneficiary of the obligation or warranty provided by En Novative Technologies, and no such third party shall have the right to enforce same. All claims must be brought within one (1) year of shipment, regardless of their nature.



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The En Core® Sampler is covered by One or More of the Following U.S. Patents: 5,343,771; 5,505,098; 5,517,868; 5,522,271. Other U.S. and Foreign Patents Pending.

* Viton® is a registered trademark of DuPont Dow Elastomers

Disposable En Core® Sampler



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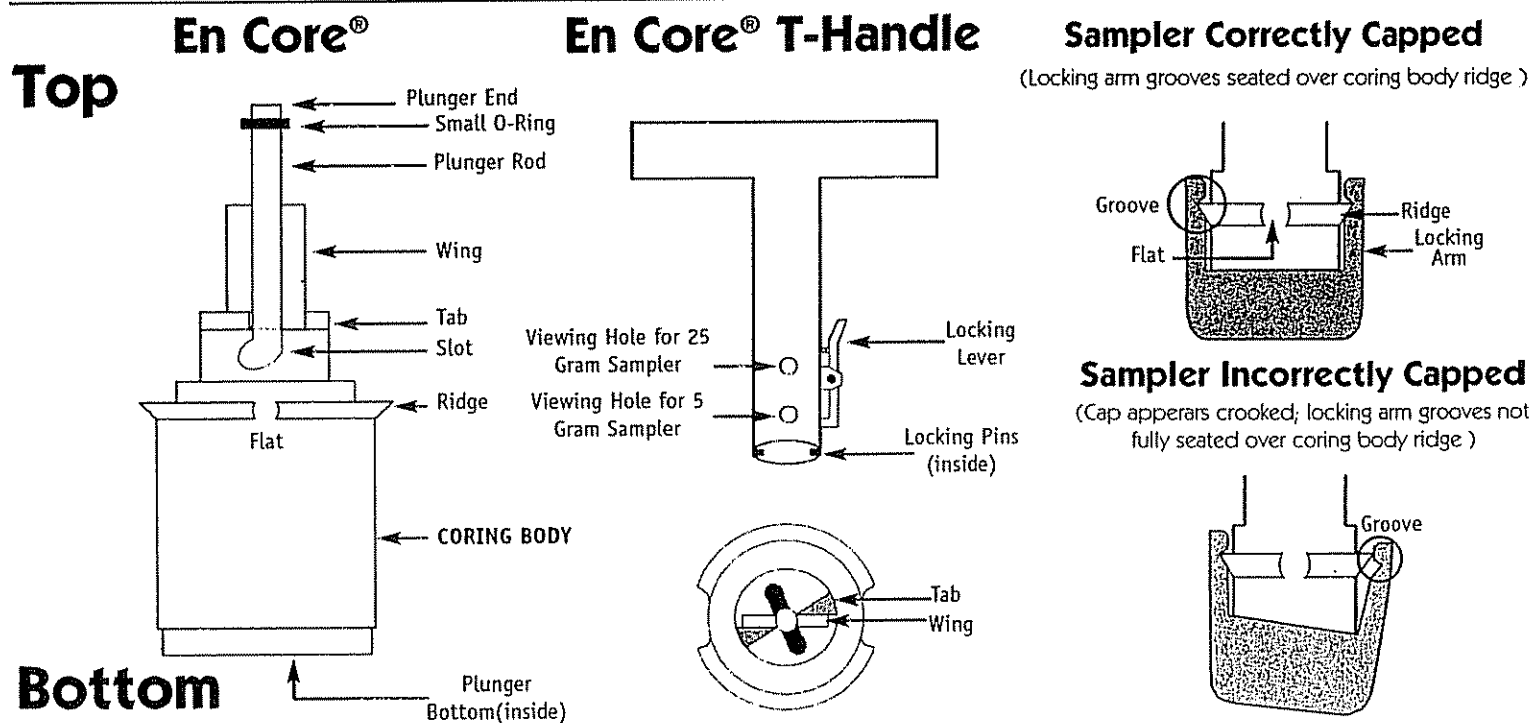
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Sampling Procedures

Using The En Core® T-Handle

NOTE:

1. En Core® Sampler is a SINGLE USE device. It cannot be cleaned and/or reused.
2. En Core® Sampler is designed to store soil. Do not use En Core Sampler to store solvent or free product!
3. En Core® Sampler must be used with En Core® T-Handle and/or En Core® Extrusion Tool exclusively. (These items are sold separately.)



BEFORE TAKING SAMPLE:

1. Hold coring body and push plunger rod down until small o-ring rests against tabs. This will assure that plunger moves freely.

2. Depress locking lever on En Core T-Handle. Place coring body, plunger end first, into open end of T-Handle, aligning the (2) slots on the coring body with the (2) locking pins in the T-Handle. Twist coring body clockwise to lock pins in slots. Check to ensure Sampler is locked in place. Sampler is ready for use.

TAKING SAMPLE:

Turn T-Handle with T-up and coring body down. This positions or bottom flush with bottom of coring body (ensure that plunger bottom is in position). Using T-Handle, push Sampler into soil until coring body is completely full. When full, small o-ring will be centered in T-Handle viewing hole. Remove Sampler from soil. Wipe excess soil from coring body exterior

4. Cap coring body while it is still on T-handle. **Push** cap over flat area of ridge **and twist** to lock cap in place. **CAP MUST BE SEATED TO SEAL SAMPLER** (see diagram).

PREPARING SAMPLER FOR SHIPMENT:

5. Remove the capped Sampler by depressing locking lever on T-Handle while twisting and pulling Sampler from T-Handle.

6. Lock plunger by rotating extended plunger rod fully counter-clockwise until wings rest firmly against tabs (see plunger diagram)

7. Attach completed tear-off label (from En Core Sampler bag) to cap on coring body

8. Return full En Core Sampler to zipper bag. Seal bag and put on ice.

APPENDIX G

Case Closure Summary

UNDERGROUND STORAGE TANK (UST) PROGRAM

CASE INFORMATION**DATE:** February 7, 2005**Site Name:** UST 41319 (Ramp 41319)**Site Address:** 41 Area, Marine Corps Base Camp Pendleton, California**Responsible Party Name:** United States Marine Corps **RP Phone Number:** Ms. Tracy Sahagun 760.725.9774**Responsible Party Address:** AC/S ES, Marine Corps Base Box 555008, Camp Pendleton, CA 92055-5008**Current Land Use:** Vehicle Staging Area**RWQCB File Number:** 9UT2903**Local Case Number:** N/A**RWQCB Staff:** P. Peuron**Basin Number:** 3.10/ 3.11**Basin Uses:** Municipal, Agricultural, and Industrial**II. RELEASE AND SITE CHARACTERIZATION INFORMATION****Description of the unauthorized release (cause, release date, source[s]):**

UST 41319 consisted of one 2000 gallon UST used to store waste oil adjacent to Ramp 41319, a vehicle grease rack (decommissioned). The UST was removed in 1994. During site assessment activities in 1999 and 2000, Eighteen vertical soil borings were advanced to depths of up to 50 feet bgs in the vicinity of the former UST. An attempt was made to collect a groundwater sample from a temporary well installed in a boring located in the former tank cavity. Groundwater was not observed in the temporary well after a 28-day period. Based on the findings from the environmental investigations, it was determined that a release from the UST impacted soil at the site. The release date is unknown.

Contaminant[s] identified and amount leaked: The contaminants encountered include hydrocarbon-affected soil (waste oil). The amount released is unknown.

Description of the soil/geology: Quaternary aged Older Alluvium. Sand, silt, clayey silt, and several feet of fill.

Is soil contamination completely delineated (to what levels)? Yes, < 100 mg/kg TPHd

Area extent? Approximately 60 feet x 40 feet

Vertical extent? 5.0 feet below ground surface

Est. Volume of contaminated soil left on site and concentration: < 14 cubic yards with TRPH \geq 1,000 mg/kg below block retaining wall near sample point 41319-EX-11.

Is groundwater contamination completely delineated (to what levels)? Groundwater was not encountered at this site.

Monitoring wells installed, properly permitted? N/A

Number of monitoring wells: N/A

Depth to groundwater: N/A

Seasonal or tidal fluctuation: N/A

Groundwater flow direction: N/A

Gradient: N/A

Is groundwater or surface water impacted? No

Is groundwater contamination contained on site? N/A

Nearest receptor (Inland Surface Water, Bay, Drinking Water Wells, etc.):

Unnamed ephemeral stream approximately 500 feet south east of the site.

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATION

Contaminant	Soil (mg/kg) initial	Soil (mg/kg) current	Water (ug/l) initial	Water (ug/l) current
TRPH	60,000	<1,000	Not Analyzed	Not Analyzed
TPH-d	3,600	<100	Not Analyzed	Not Analyzed
TPH-g	300	<10	Not Analyzed	Not Analyzed

IV. TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (include units)	Action (treatment or disposal)	Concentration	Date
Soil	211 yds ³	Disposal	≤ 49,000 (TRPH)	11/8/2004

CLOSURE

<i>Does completed corrective action protect beneficial uses per the RWQCB Basin Plan? Yes</i>		
<i>Should corrective action be reviewed if land use changes? No</i>		
<i>Monitoring wells decommissioned? N/A</i>	<i>Number decommissioned: N/A</i>	<i>Number retained: N/A</i>
<i>Enforcement actions taken: None</i>		
<i>Enforcement actions rescinded: None</i>		

VI. Signature of Reviewer

_____ Date
(Staff Name)

VII. Signature of Senior Staff

_____ Date
(Senior Staff Name)